

Select Board Meeting

Monday, March 9, 2020 7:00 PM 36 Bartlet Street, Andover, MA 01810 Select Board Conference Room RECEIVED TOWN CLERK'S OFFICE

2020 MAR -5 P 2: 48

LOWN OF ANDOVER, MASS

- I. Call to Order 7:00 P.M.
- II. Opening Ceremonies
 - A. Moment of Silence/Pledge of Allegiance
- III. Communications/Announcements/Liaison Reports
- IV. Citizens Petitions and Presentations
- V. Public Hearings
 - A. <u>Small Cell Wireless Installation 308 Lowell Street 4th Reading (10 minutes)</u>
 Board to review a request by AT&T to install a new small cell facility in Andover to address coverage and capacity issues in the network. The proposed design includes mounting a small antenna measuring 25" tall with a 10" diameter on top of the existing utility pole along with an equipment cabinet, an electrical meter, circuit breaker and associated cables mounted on the side of an existing National Grid utility pole within the public right of way at 308 Lowell Street, Andover, MA, Utility Pole #591-84.

VI. Regular Business of the Board

- A. <u>MSBA 2020 Statement of Interest Recommendation (10 minutes)</u>
 Board of Selectmen to discuss and consider to voting to authorize the Superintendent to submit to the Massachusetts School Building Authority 2020 Statement of Interest Form for Andover High School.
- B. <u>Valet Parking License Agreement (10 minutes)</u>
 Board to review and consider voting to approve a Valet Parking License Agreement.
- C. <u>Annual Town Meeting Articles (60 minutes)</u>
 Board to consider voting to take a position on the following articles:

P46	Pension Obligation Bond
P8	Capital Projects from Special Dedicated Funds
P9	Capital Projects from Water and Sewer Enterprise Funds
P10	Budget Transfers
P11	Supplemental Budget Appropriations
P12	Stabilization Fund
P13	Free Cash
P14	Unexpended Appropriations
P16	General Housekeeping Articles
P17	Granting Easements

P18	Unpaid Bills
P19	Chapter 90 Authorization
P20	Jerry Silverman Fireworks
P21	Fiscal Year 2021 Revolving Accounts
P24	PEG Access and Cable Related Fund Expenses
P25	Overlay Surplus Transfer
P26	Appropriation from Elderly Services Program Stabilization Fund
P27	Elderly/Disabled Transportation Program
P28	Support for Andover Day
P29	Spring Grove Cemetery Maintenance
P30	Stabilization Fund Bond Premium
P31	Water Treatment Plant Maintenance
P34	Sale of Town Yard Property and Portion of Lewis Street
P36	Taking by Eminent Domain Town Yard Property and Discontinued
	Portion of Lewis Street
P37	Lease of Land at the Water Treatment Plant to Federal Aviation
	Administration

VII. Consent Agenda

A. <u>Appointments by the Town Manager</u> Board to vote that the following appointments by the Town Manager be approved:

Department	Name	Position	Rate/Term	Date of Hire
Information	Wallace McKenzie	Solutions	\$117,655.00/year	3/24/2020
Technology	(Michael Kirk)	Architect		
Information	Daniel DeCesare	Solutions	\$93,689.00/year	3/16/2020
Technology	(Jay Wassouf)	Manager		
Facilities	Daniel Chadwick (Larry Johnson)	Carpenter	\$62,523.00/year	3/23/2020
Facilities	Kevin Casimir (James O'Donnell)	Security Guard	\$21.01/hour	3/14/2020
Facilities	Michael LaPlante (Timothy McLaughlin)	Security Guard	\$21.02/hour	3/14/2020
Community Services – Recreation	Andrew Preston	Kid Care	\$12.00/hour	2/25/2020
Community Services – Recreation	Tia Pittounicos	Kid Care	\$16.00/hour	3/10/2020
Community Services – Recreation	Katelyn Bohan	Seasonal	\$12.75/hour	2/25/2020
Community Services – Recreation	Emily Generazzo	Seasonal	\$12.75/hour	2/25/2020
Community Services – Recreation	Ryan Harris	Seasonal	\$12.75/hour	2/25/2020
Community Services – Recreation	Devin Kim	Seasonal	\$12.75/hour	2/25/2020

Community Services –	Maxwell Murray	Seasonal	\$12.75/hour	2/25/2020
Recreation				
Community Services –	Christos Douroudis	Seasonal	\$20.00/hour	3/10/2020
Recreation				
Community Services –	Abbie Ledoux	Seasonal	\$12.00/hour	3/4/2020
Youth Services				

VIII. Adjourn

If any member of the public wishing to attend this meeting seeks special accommodations in accordance with the Americans with Disabilities Act, please contact Kathryn Forina in the Town Manager's Office at 978-623-8215 or by email at kathryn.forina@andoverma.us

MEETINGS ARE TELEVISED ON COMCAST CHANNEL 22 AND VERIZON CHANNEL 45

Town of Andover Policy Applications for Small Cell Wireless Installations

The Town of Andover ("Town") by and through its Board of Selectmen hereby adopts this policy ("Policy") concerning Applications for Small Cell Wireless installations within the public right of way of the Town or located on Town- owned property.

1. Application Process.

- a. Applications shall be submitted to the Board of Selectmen through the Office of the Town Manager accompanied by the application fee of \$500 per application, payable to the Town of Andover. The \$500 fee will cover up to 5 locations. Each application for more than 5 installations is subject to a separate fee of \$100 per installation.
- b. Ten (10) hard copies and 1 (one) electronic copy of the application must be submitted. Applications may be hand-delivered during normal Town Hall office hours or mailed. If mailed, the date of receipt shall be the date from which the time standards are measured.
- c. The applicant must also pay for and publish and mail legal notices of the public hearing to local newspapers and abutters, as applicable. The applicant is responsible for obtaining the abutters list for each pole location within the application. The applicant must provide proof of mailing and publication to the Town Manager.
- d. No application will be accepted for review until all items listed in 2, below, have been submitted, as well as all fees and the abutters list paid for.
- e. Upon receipt, the Office of the Town Manager shall date and time stamp the Application as received.
- f. The Town Engineer or his designee shall make a determination as to completeness of the application and notify the Applicant, in writing, within 10 days, if the application is incomplete. If the Applicant is notified that the application is incomplete, the application is deemed rejected and must be resubmitted.
- g. The Office of the Town Manager shall also circulate a copy of the application to the following departments for comment and review: Building; Engineering; Planning; Health; Police; Fire; Conservation Commission; and, any other department the Town Manager, in his or her sole discretion, determines.
- h. Written comments from the departments shall be submitted to the Office of the Town Manager within 20 days of circulation of the application.
- i. Once the application is deemed complete, and all comments have been received, the Board of Selectmen will schedule and hold a public hearing to consider the application, such that a determination may be made on any application for an installation on an existing structure within the time period required by law.

- j. Any material changes to an application, as determined by the Town in its sole discretion, shall constitute a new application for the purposes of the time standards. Where a changed or new application is submitted, the prior application shall be deemed withdrawn.
- k. Upon completion of the hearing, the Board of Selectmen may grant, grant with conditions, or deny the application, based on inadequate capacity of the pole or mounting structure, safety concerns, reliability concerns, or failure to meet applicable engineering or design standards.
- l. Any approval granted to an applicant shall be only for the specific applicant and application. Any change in the name/carrier or sistered service provided by another carrier or small cell wireless location will require a new application and approval from the Town.

2. Content of Applications. Applications shall include the following information:

- a. Applicant's name, address, telephone number and email address.
- b. Names, addresses, telephone numbers, and email addresses of anyone acting on behalf of the Applicant with respect to the application.
- c. Detailed drawings, with wet stamp/wet signature, and descriptions of the equipment to be installed, whether mounted on poles or on the ground, or otherwise, including:
 - ii. Type of equipment
 - ii. Specifications of equipment (including but not limited to dimensions and weight of each piece of equipment and of all equipment)
 - iii. Dimension of each piece of equipment and total dimension of all equipment
 - iv. Costs of all equipment and installation
 - v. Equipment mount type and material
 - vi. Power source or sources for equipment, including necessary wires, cables and conduit
 - vii. Expected life of equipment
 - viii. Coverage area of equipment, including:
 - 1. Amount of antennas
 - 2. Antenna model
 - 3. Antenna length
 - 4. Remote radio units (RRU) count and power
 - 5. Antenna height
 - 6. Typical coverage area radius
 - ix. Call capacity of equipment, including:
 - 1. Total RRUs
 - 2. Max bandwidth per RRU
 - 3. Multiple input, multiple output (MIMO) per RRU
 - 4. Backhaul rate per RRU
 - x. Hardening, including:

- 1. If there is battery backup
- 2. If there is generator backup
- 3. If there are multiple fiber paths to switch
- xi. Frequency of equipment proposed to be installed.
- d. Photos, renderings, and elevation of equipment proposed to be installed.
- e. Detailed map with locations of the poles or other structure on which equipment is to be located, including specific pole identification number, if applicable, and the areas it will service. The data must be supplied in a format that can be uploaded as a data layer to the Town's GIS map.
- f. Detailed map showing existing and proposed small cell installations within 500 feet of the Application site.
- g. Certification by a registered professional engineer that the pole/or location will safely support the proposed equipment.
- h. Written consent from the pole, structure, or facility owner to the installation.
- i. Affidavit from a Radio Frequency Engineer outlining the network/network service requirements in Andover and how the installations address that need in Andover. Such affidavit should characterize the current level of coverage and how the desired installations will change the current level of coverage, through or with coverage maps, including current and proposed coverage, including a breakdown of "excellent" "good and "poor" reception areas.
- j. Insurance certificate evidencing workers' compensation coverage, and comprehensive general liability coverage for the installation.
- k. Description as to why the desired location is superior to other similar locations, from a community perspective, including:
 - i. Visual aspects
 - ii. Proximity to residential structures
- l. Description of efforts to co-locate the equipment on existing structures, poles, or towers which currently exist or are under construction. A good faith effort to co-locate is required and evidence of such efforts must be included within the application.
- m. An Affidavit from the applicant which certifies that it will maintain the installations in good repair and according to FCC standards, and will remove any installation not in such good repair, or not in use, within 60 days of being no longer in good repair or no longer in use.
- n. Completed cover sheet on Town form, using extra sheets as necessary to provide all information.

o. Surety bond on which the Town is obligee, in an amount equal to the cost of installation, to ensure removal of equipment.

3. Annual Re-Certification and Affidavit.

- a. Each year on July 1 the party responsible for the equipment maintenance shall submit an affidavit which shall list, by location, all small cell wireless installations it maintains within the Town of Andover by location, and shall certify: (1) each such installation that remains in use; (2) that such in use installations remain covered by insurance as required by MassDOT; and (3) each such I installation which is no longer in use.
- b. The party responsible for the equipment maintenance shall pay an annual recertification fee of \$100 per installation which remains in use.
- c. Any small cell wireless installation which is no longer in use shall be removed by the party responsible for its maintenance within 60 days of receipt of the annual recertification affidavit, at that party's expense.
- d. Any small cell wireless installation which is not removed within 60 days after being listed as no longer in use in the annual re-certification affidavit shall be subject to a fine of \$100/day against the party responsible for the equipment's maintenance until such installation is removed.
- e. Where such annual re-certification has not been timely submitted, or equipment no longer in use has not been removed within the required 60-day period, no further applications for small cell wireless installations will be accepted by the Town until such time as the annual re-certification has been submitted and all fees and fines paid.

4. Prohibitions.

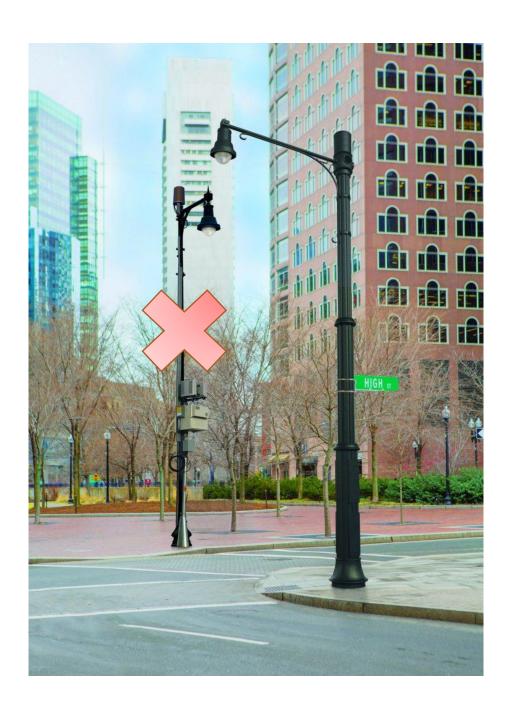
- a. No small cell wireless installations shall be installed on double poles.
- b. No small cell wireless installation shall be installed on poles which are not ADA compliant.
- c. No small cell wireless installations shall remain within the Town right of way or on Town property which has not been certified as in use in the annual recertification affidavit.
- d. No small cell wireless installation equipment shall be replaced or altered without a reapplication, hearing, and approval from the Board of Selectmen unless the equipment is no longer properly functioning, and it is being replaced with the same or substantially similar equipment.
- e. No application may seek approval of more than five (5) proposed facilities.

- f. No applicant or closely held applicant may file more than two (2) applications within 60 days of another.
- g. No emailed applications shall be accepted for filing.
- a. No equipment may be used that is manufactured by a company whose equipment is banned from use by any branch or department of the U.S. government.

Town of Andover Small Cell Wireless Facility

and similar structures

Design Rules and Regulations



These Rules and Regulations describe approved aesthetic and location criteria for Small Cell Wireless Facilities (SWF) in the Town of Andover. These requirements apply to both the SWF and accessory equipment, such as ground-mounted equipment.

1. BACKGROUND

Public spaces and streetscapes enhance the quality of life for our residents and visitors, and ensures that the Town has the foundation to become a more walkable and sustainable city. It also serves as the city's civic, cultural, and physical framework of the character of Andover.

To address the growing demand for wireless technology across the United States, cellular providers propose to increase the capacity of their networks by deploying small cell infrastructure (Small Cell), a new lower-powered antenna technology, to reduce data traffic load on roof mounted equipment and larger cell towers. This new technology requires infrastructure to be installed in closer proximity to the users on the ground. Small Cell infrastructure consists of antennas and related power equipment that transmits wireless signals to improve reliable data streaming. This infrastructure will provide cellular and data coverage to smaller geographic areas. New Small Cell facilities will improve the provider's ability to meet the public's current 4G (LTE) voice and data demands and the future 5th generation cellular needs for interconnected devices to operate at high speeds to access data.

Small Cell infrastructure will affect the function and aesthetics of public spaces. Cities across the nation are beginning to address the issue of balancing the need to accommodate the increased cellular demand with their community's public space character and function. To provide the necessary coverage, each cellular provider will install infrastructure to serve their individual needs; additionally, some companies serve as an infrastructure provider installing equipment that will house infrastructure for multiple cellular providers. Like other utilities, federal law allows Small Cell infrastructure equipment in the public right-of-way. Balancing the need to accommodate increasing cellular demand while preserving public space character and function is critically important, as is the need to design and place the proposed infrastructure in an appropriate way.

2. ADOPTION

These Rules and regulations are intended to cover the general standards and aesthetics for the design and installation of Small Cell and similar technology.

3. SITING PROHIBITIONS

Small Cell infrastructure is not permitted to be installed on:

- a. No small cell wireless installation shall be installed on Double Poles
- b. No small cell wireless installation shall be installed on poles which are not ADA compliant.
- c. No equipment shall be placed inconsistent with ADA regulations for passage around said infrastructure.

- d. Cabinets or other small cell infrastructure may not be placed within the travel way of the sidewalk to impede ADA accessibility. Sidewalk travel ways shall maintain a minimum of 4 feet in width to accommodate the snow clearing vehicles along the sidewalks.
- e. No small cell wireless installations shall remain within the Town right of way or on Town property which has not been certified as in use in the annual recertification affidavit.
- f. No small cell wireless installation equipment shall be replaced or altered without a reapplication, hearing, and approval from the Board of Selectmen unless the equipment is no longer properly functioning, and it is being replaced with the same or substantially similar equipment.

4. AESTHETIC REQUIREMENTS FOR SMALL CELL WIRELESS FACILITIES

- a. Except when Small Cell infrastructure is attached to a wood pole, poles and all equipment must be the same color and finish as surrounding streetlight poles or third party poles.
- b. Exposed wires are not permitted.
 - 1. Corporate or company names (except for location identification purposes noted below), logos, identifying graphics or other advertisements shall not be painted, embossed, applied or displayed in any manner on the poles, equipment enclosures (boxes, cabinets, etc.), hand hole covers, or other component of the pole.
 - 2. Individual location identification information will be permitted, provided no letter, number, or graphic symbol is taller than one inch in height.
- c. Standalone Poles: The height of any standalone pole including its antenna(e) shall not exceed 32 feet or no more than 10 percent taller than other adjacent poles, whichever is greater.
- d. Wood Poles: The height of any replacement wood pole including its antennae shall not exceed 45 feet.

5. ANTENNAS

- a. Each small wireless antenna shall be located entirely within a shroud or canister type enclosure.
- b. The diameter of the antenna enclosure at its widest point should not be wider than two times the diameter of the top of the wireless support structure. The enclosure shall not exceed six cubic feet in volume.
- c. All antenna enclosures shall either be mounted to the top of the wireless support structure pole and aligned with the centerline of the wireless support structure, or mounted to the side of the wireless support structure such that the vertical centerline of the antenna enclosure shall be parallel with the wireless support structure with the height of the side mounted antenna being at a location on the wireless support structure noted in the application and approved by the Town, but at least 10 feet above ground level at its lowest point.
- d. Tree "topping" or the improper pruning of trees is prohibited. Any proposed pruning or removal of trees, shrubs or other landscaping already existing in the Right of Way must be noted in the application and must be approved by the Town Tree Warden.

5.1 Cables and Wires

All cables, wires and connectors related to the small wireless facility must be fully concealed on the wireless support structure and shall match the color of the wireless support structure. There shall be no external cables and wires related to the small wireless facility hanging off or otherwise exposed on the wireless support structure.

5.2 Colors

All colors shall match the background of any wireless support structure that the facilities are located upon, including equipment cabinets. Notwithstanding the foregoing, in the case of existing wood utility poles, finishes of conduit shall be zinc, aluminum or stainless steel, or colored to match those metal finishes, and equipment cabinets shall be the color of brushed aluminum.

5.3 Equipment Enclosures / Concealment

- a. Equipment enclosures, including electric meters, shall be as small as possible, but in no event larger than 28 cubic feet in volume. Ground-mounted equipment shall incorporate concealment elements into the proposed design matching color and materials of the wireless support structure, unless other materials or colors are approved by the Town. Concealment may include, but shall not be limited to, landscaping, strategic placement in less obtrusive locations and placement within existing or replacement street furniture.
- b. Radio equipment shall be fully enclosed within an equipment cabinet or concealed within the antenna shroud enclosure matching the color and materials of the wireless support structure, unless other materials or colors are approved by the Town.
- c. Landscaping concealing equipment enclosures shall be planted in such quantity and size such that 100% screening is achieved within two years of installation.

6. SIGNAGE/LOGOS/LIGHTS/DECALS/COOLING FANS

- a. Signage: The small wireless facility permittee shall post its name, location identifying information, and emergency telephone number in an area on the cabinet of the small wireless facility that is visible to the public. Signage required under this section shall not exceed 4 inches by 6 inches, unless otherwise required by law (e.g. radio-frequency (RF) ground notification signs) or the Town. If no cabinet exists, the signage shall be placed at the base of the pole.
- b. Lights: New small wireless facilities and wireless support structures shall not be illuminated, except in accord with state or federal regulations, or unless illumination is integral to the camouflaging strategy such as design intended to look like a street light pole.
- c. Logos/Decals: The small wireless facility operator/permittee shall remove or paint over unnecessary equipment manufacturer decals. The color shall match or shall be as approved by the Building Inspector. Small wireless facilities and wireless support

structures shall not include advertisements and may only display information required by a federal, state, or local agency. The small wireless facility operator/permittee shall utilize the smallest and lowest visibility RF warning sticker required by government or electric utility regulations. Placement of the RF sticker shall be as close to the antenna as possible.

d. Cooling Fans: In residential areas, the small wireless facility operator/permittee shall use a passive cooling system. In the event that a fan is needed, the small wireless facility operator/permittee shall use a cooling fan with a low noise profile.

7. LOCATION REQUIREMENTS

7.1 Most Preferable Locations

The following are the most preferred areas for new small wireless facilities in the order of preference (1 being most preferable):

- 1. Industrial Districts if not adjacent to a park, residential district or historic district.
- 2. Public Rights of Way areas if not adjacent to a park, residential district.

7.2 Collocation Preference

It is the Town's strong preference that whenever an applicant proposes to place a new small wireless facility that the applicant collocate the same on existing wireless support structures.

7.3 Least Preferable Location

The following are the least preferred areas for new small wireless facilities in the order of preference (2 being least preferable).

- 1. Residential Districts
- 2. Parks

7.4 Consideration of Alternate Locations

The Town reserves the right to propose an alternate location for a small wireless facility and/or wireless support structure to the location proposed in the application within one hundred feet of the proposed location or within a distance that is equivalent to the width of the Right of Way or structure in or on which the small wireless facility and/or wireless support structure is proposed, whichever is greater, which the operator shall use if it has the right to use the alternate location on reasonable terms and conditions and the alternate location does not impose technical limits or additional costs.

7.5 General limits: Adherence to Other Applicable Standards

If a streetscape is redesigned in the future, including, but not limited to the location and type of streetlights, small cell providers will be required to remove their infrastructure at their own cost

and apply to reinstall small cell infrastructure in accordance with these guidelines and the new streetscape.

7.6 Guidelines on Placement

The Town desires to promote cleanly organized and streamlined facilities using the smallest and least intrusive means available to provide wireless services to the community. Generally, a small wireless facility and/or wireless support structure shall match and be consistent with the materials and finish of the wireless support structure, adjacent poles and structures, and of the surrounding area adjacent to their location.

The following additional guidelines on placement shall apply:

- a. Small wireless facilities and wireless support structures shall be located no closer than 150 feet away, radially, from another small wireless facility and wireless support structure.
- b. A combination wireless support structure and streetlight pole should only be located where an existing pole can be removed and replaced, or at a new location where it has been identified that a streetlight is necessary.
- c. Small wireless facilities and wireless support structures shall be located in a manner that does not impede, obstruct, or hinder usual public pedestrian or vehicular travel or public safety on a Right of Way.
- d. Small wireless facilities and wireless support structures shall be located in a manner that does not obstruct the legal use of a Right of Way by a utility provider.
- e. Small wireless facilities and wireless support structures shall be located in a manner that does not violate or conflict with the zoning and general bylaws, applicable law and regulations, or this policy.
- f. Small wireless facilities and wireless support structures shall be located in a manner that does not violate the federal Americans with Disabilities Act.
- g. Small wireless facilities and wireless support structures shall be located in a manner that does not negatively impact the structural integrity of the associated wireless support structure.
- h. Small wireless facilities and wireless support structures shall be located in alignment with existing trees, utility poles, streetlights, and buildings.
- i. Small wireless facilities and wireless support structures shall be located equidistant between trees when possible, with a minimum of 15 feet separation such that no proposed disturbance shall occur within the critical root zone of any tree.
- j. Small wireless facilities and wireless support structures shall be located with appropriate clearance from existing utilities.
- k. Small wireless facilities and wireless support structures shall be located so as not to be located along the frontage of any building deemed to be of historic significance on a federal, state, or local level.
- 1. Small wireless facilities and wireless support structures shall be located not within sight triangles at street intersections.
- m. New wireless support structures shall not be located directly in front of any existing residential, commercial or industrial structure.

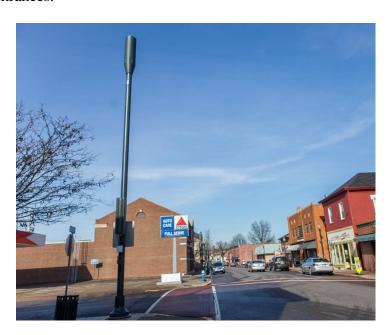
To the greatest extent possible, new wireless support structures shall be located in line with existing lot lines or an equidistance from any two existing structures. In areas of the Town where multiple structures abut each other and/or where no side lot setback requirements exist, new wireless support structures shall not be located directly in front of an entrance or window of any existing structure.



8. PEDESTRIAN PATH AND AMENITY ZONE

- a. The sidewalk area of public space is typically delineated into the pedestrian path and the amenity zone. The amenity zone is located between the pedestrian path and the roadway and provides access between the two as well as the area for street trees, streetlights and traffic signals, and other functional elements. It is critical that all pedestrian paths are clear to facilitate safe and optimal access and circulation along sidewalks.
- b. Standalone poles shall not be located in the clear pedestrian path
- c. Standalone poles shall be aligned with existing streetlights, third party poles, and street trees as applicable in order to maintain a visual and physical organization of structures within the right-of-way, as measured from the center of the base of the pole. When streetlight and street tree alignment are offset within the amenity or curbside zones, prioritize alignment of the small cell facility with streetlights.
- d. All measurements shall be taken from the outer edge of the standalone pole and the infrastructure listed in the following specific limits/prohibitions.
- e. Standalone poles must be placed a minimum of six feet (6') from existing fire hydrants or buildings' fire connections.
- f. Standalone poles shall be located a minimum of 10 feet (10') from light poles and traffic signal poles.

- g. Standalone poles shall be located a minimum of 3 feet (3') from bicycle racks and shall not impede the attachment of bicycles.
- h. Standalone poles shall be placed a minimum of ten feet (10') from any above grade building face, including bay windows, show windows and building projections or overhangs.
- i. Poles should be located, to the maximum extent possible, to minimize impact on businesses and residential mixed-use development by avoiding placement directly in front of building entrances, alignment with windows, primary entry walks, or delivery zones or entrances.



9. ACCESS, CIRCULATION AND SIGHT DISTANCES

- a. Safe and functional access, circulation, and clear sight lines are important for pedestrian ease of movement and to maintain unobstructed line of sight among drivers, pedestrians, bicyclists.
- b. Standalone poles shall not obstruct ADA access, including maintaining a clear landing at the top of curb ramps at crosswalks.
- c. Pole placement shall not impede, obstruct, violate, conflict with, or hinder any mode of travel over or access to any public street, bridge, tunnel, highway, lane, path, alley, sidewalk, or driveway, including but not limited to the obstruction of sight lines.
- d. Poles shall be placed consistent with the most current Manual on Uniform Traffic Control Devices and adopted District standards for maintenance of an intersection's sight line triangles.
- e. A minimum of fifteen feet (15') shall be maintained between the pole and the outside edge of the alley or driveway.

10. OTHER REQUIRED SUBMISSION INFORMATION

- b. A composite map of all the desired locations of the small cell providers to understand the total need for facilities and the areas of highest demand within the study area.
- c. An understanding as to why there is no requirement for multiple providers to share infrastructure (hoteling) and whether this could occur if the number of allowable poles were reduced.

11. LIMITATIONS

While the Town fully intends to apply the guidelines established in this policy uniformly to all small wireless facility applications, there may be circumstances where not every specific guideline may be met. In these cases, Town staff will use its reasonable discretion in approving small wireless facilities permit applications that deviate from the strict application of this policy.

12. EFFECTIVE DATE OF POLICY

This Policy will be effective as of the 11th of April, 2019. Modifications of the Design Rules and Regulations may be modified from time to time by the Andover Board of Selectman.

Town of Andover Applications for Small Cell Wireless Installations Cover Sheet

Applicant's use of this cover sheet is mandatory. It is meant to provide a framework to ensure compliance with the Town of Andover's Policy for Applications for Small Cell Wireless Installations.

Total number of Small Wireless Facilities being requested on this application (Per town policy, no application may exceed 5 proposed facilities)
Total number of applications filed by the applicant or closely held applicant in the last 60 days (Per town policy, no application will be accepted if more than 2 applications have been filed in that time period)
☐ Date and Time stamped on each application
\$500 made out to the Town of Andover for up to five locations for initial application review \$100 for each additional location
All applications shall number each page with easily identifiable identifier numbers unique to each application
Specify whether the application is under the FCC Declaratory Ruling and Third Report and Order, §6409/Wireless Siting Order, or neither:
a. If §6409 application, submit documentation to establish the basis for that conclusion
Specify which shot clock (60-90-150 day) applies and the basis for that conclusion:
10 day receipt date
Applications complete, including receipt of all permits or notification that a permit was not needed except for a building permit from other town boards and commissions applicable to the proposed locations and facilities? Yes No
Checklist of prior reviewing departments (insert Y, N, or N/A)
PoliceFireBoard of HealthConservation CommissionPlanning

Engineering Building Other (specify)
a. Submit a copy of all such received permits or verification that no permit is needed
If no, which applications are incomplete (any incomplete applications will be rejected)
a. Identify how each application is incomplete
Date and time of re-submission
Public Hearing Notice published in a newspaper of general circulation and mailed to abutters within 300 feet of the proposed locations by applicant using notice provided by Town. The applicant must obtain the certified abutter's list from the Assessor's Office.
Public Hearing fee is paid for by applicant.
Ten (10) hard copies of the application are required One (1) electronic copy to manager@andoverma.gov sent on
Applicant's nameAddress
Telephone numberEmail address
Names, addresses, telephone numbers, and email addresses of anyone acting on behalf of the Applicant with respect to the application.
Ensure that wet stamps/wet signatures of professional designers are on all drawings
Include detailed drawings and descriptions of the equipment to be installed, whether mounted on poles or on the ground, or otherwise, including:
Description of type of equipment

Specifications of equipment Dimension of each piece of equipment and total dimensions of all equipment Costs of all equipment and installation Total weight at each location How will equipment be mounted and what type of material will be used to mount equipment All power sources for equipment (comment on necessary wires, cables, and conduit) Expected life of equipment Coverage area of equipment on the location Amount of antennas Antenna model Antenna length remote radio units (RRU) count and power Antenna height Typical coverage area radius Call capacity of equipment, including: Total RRUs Max bandwidth per RRU Multiple input, multiple output (MIMO) per RRU Backhaul rate per RRU

Hardening, including:

Is there battery backup
Is there generator backup
Will there be multiple fiber paths to switch
Frequency of equipment proposed to be installed.
Photos, rendering and elevation of equipment proposed to be installed:
□ Include detailed map with locations of the poles or other facility on which equipment is to be located, including specific pole identification number, if applicable, and the areas it will service. Location details must be provided to be compatible as an additional data layer to the Town's GIS map
☐ Include detailed map showing existing and proposed small cell installations within 500 feet of the Application site.
☐ Include certification by a registered professional engineer that the pole/or location will safely support the proposed equipment.
☐ Include written consent from the pole, structure, or facility owner to the installation.
□Include an affidavit from a Radio Frequency Engineer outlining the network/network service requirements in Andover and how the installations address that need in Andover. Such affidavit should characterize the current level of coverage and how the desired installations will change the current level of coverage, through or with coverage maps, including current and proposed coverage, including a breakdown of "excellent" "good and "poor" reception areas.
☐ Include insurance certificate evidencing workers' compensation and comprehensive general liability coverage for the installation.
☐ Include a description as to why the desired location is superior to other similar locations, from a community perspective, including:
□Visual aspects
□Proximity to residential structures

☐ Include a description of efforts to co-locate the equipment on existing structures, poles, or towers which currently exist or are under construction. A good faith effort to co-locate is required and evidence of such efforts must be included within the application.
☐ Include a narrative of how design requirements have been met.
□ Include an affidavit from the applicant which certifies that it will maintain the installations in good repair and according to FCC standards, and will remove any installation not in such good repair, or not in use, within 60 days of being no longer in good repair or no longer in use.
☐ Include surety bond on which the Town is obligee, in an amount equal to the cost of installation, to ensure removal of equipment.

Annual Re-Certification and Affidavit.

- Each year on July 1 the party responsible for the equipment maintenance shall submit an affidavit which shall list, by location, all small cell wireless installations it maintains within the Town of Andover by location, and shall certify: (1) each such installation that remains in use; (2) that such in use installations remain covered by insurance as required by MassDOT; and (3) each such installation which is no longer in use.
- The party responsible for the equipment maintenance shall pay an annual re-certification fee of \$100 per installation which remains in use.
- Any small cell wireless installation which is no longer in use shall be removed by the owner within 60 days of receipt of the annual re-certification affidavit, at that party's expense.
- Any small cell wireless installation which is not removed within 60 days after being listed as no longer in use in the annual re-certification affidavit shall be subject to a fine of \$100/day against the party responsible for the equipment's maintenance until such installation is removed.
- Where such annual re-certification has not been timely submitted, or equipment no longer in use has not been removed within the required 60-day period, no further applications for small cell wireless installations will be accepted by the Town until such time as the annual re-certification has been submitted and all fees and fines paid.

☐ Agree to annual re-certification and affidavit and payment as shown above. Conditions/Prohibitions.

- No small cell wireless installations shall be installed on double poles.
- No small cell wireless installation shall be installed on poles which are not ADA compliant.
- No small cell wireless installations shall remain within the Town right of way or on Town property which has not been certified as in use in the annual re-certification affidavit.

similar equipment.
☐ Agree to Conditions/Prohibitions as set forth in town bylaws and policies.
As submitted by,

• No small cell wireless installation equipment shall be replaced or altered without a re-

application, hearing, and approval from the Board of Selectmen unless the equipment is no longer properly functioning, and it is being replaced with the same or substantially



TOWN OF ANDOVER

Town Clerk's Office

36 Bartlet Street Andover, MA 01810 978-623-8230 townclerk@andoverma.gov

PUBLIC HEARING RESCHEDULED

You are hereby notified that the Public Hearing scheduled for Monday, January 13, 2020 at 7:00 P.M. has been rescheduled. The hearing will be held by the Andover Select Board at the Town Offices on 36 Bartlet Street, in the third floor Select Board's Conference Room on Monday, January 27, 2020 at 7:00 P.M.

During this hearing, the Select Board will review a request by AT&T to install a new small cell facility in Andover to address coverage and capacity issues in the network. The facility will be mounted on an existing National Grid utility pole within the public right of way at:

308 Lowell Street, Andover, MA; 42.647652 N 71.183969 W; Utility Pole #591-84

The design includes mounting a small antenna measuring 25" tall with a 10" diameter on top of the existing utility pole along with an equipment cabinet, an electrical meter, circuit breaker and associated cables mounted on the side of the pole. All interested parties may attend and be heard. Comments for the Select Board may also be sent to the Town Manager's Office.

Plan(s) of the proposed work can be found in the Meeting Packet on the Select Board page on the Town of Andover website: www.andoverma.gov.

By order of the Select Board

Austin Simko Town Clerk

REVISED Date: January 7, 2020

Petition: 4-2019-0537

brownrudnick

Edward D. Pare, Jr., Esq. direct dial: 401-276-2639 epare@brownrudnick.com

September 11, 2019

Town of Andover Board of Selectmen c/o Andrew P. Flanagan Office of the Town Manager 36 Bartlet Street Andover, MA 01810

Re: Application for Small Cell Wireless Installation on Existing Utility Pole Near 308 Lowell Street, Andover, Massachusetts

Dear Member of the Board of Selectmen:

We represent New Cingular Wireless PCS, LLC (d/b/a "AT&T") with respect to its deployment of small cell facilities in the Town of Andover and the Commonwealth of Massachusetts. AT&T is licensed by the Federal Communications Commission (the "FCC") to provide wireless communications services in the Town of Andover and throughout the Commonwealth of Massachusetts.

On behalf of AT&T and while reserving all rights, attached please find a completed Small Cell Wireless Installation Application (the "Application") for one (1) small cell facility on an existing utility pole located near 308 Lowell Street, Andover, MA (the "Site") pursuant to the Declaratory Ruling and Third Report and Order 18-133 (the "Order") issued by the FCC in September 2018 https://docs.fcc.gov/public/attachments/FCC-18-133A1_Rcd.pdf and Massachusetts General Laws Chapter 166, Sections 21, 22 and 25A for telecommunication wires and wireless attachments and appurtenances attached to an existing utility pole owned by National Grid. AT&T has entered into a Pole Attachment Agreement with National Grid and we have provided a copy of the letter of authorization from National Grid to submit this Application. We have also provided a detailed set of drawings (the "Plans") and map for the small cell facility. Additionally, we have provided photographs and photo simulations of the proposed small cell facility. Also enclosed, please find a generic report demonstrating compliance with applicable emissions standards established by the FCC.

While reserving all rights under local, state and federal laws, regulations and orders, and to the extent not preempted by state and federal laws, regulations and orders, AT&T submits the enclosed Application. AT&T proposes this small cell facility in the Town of Andover in order to deal with the rapidly increasing demand on AT&T's wireless network. This small cell facility will work in conjunction with the existing macro sites installed on rooftops, towers and other structures in and around the Town of Andover.

AT&T's radio frequency engineers targeted the proposed location due to the high traffic and data demands on AT&T's network in the area. Please see the enclosed coverage maps submitted as part of the Application. AT&T's existing macro cell sites are not providing adequate data capacity in this location due to population, vehicular and foot traffic, multiple



wireless devices used by customers and other contributing factors. This small cell facility will work to offload the demand on the macro sites and allow for increased data capacity and speed within the immediate vicinity of the Site.

The small cell facility will be installed using standard commercially accepted methods in accordance with all applicable federal, state and local laws, regulations and orders. As depicted on the Plans, the small cell installation on the existing utility pole will include: fiber optic cable(s); remote nodes in a small equipment cabinet 32" in height by 18" wide by 15" deep mounted to the pole at least 11.5' above ground level; an unobtrusive pole top antenna measuring 24.7" long and 10" in diameter; conduits and cable protectors; and, an electrical meter (not on the street side of the pole) with shutoff switch. The Plans also provide the proposed location, pole height, mounting height and equipment specifications.

The Telecommunications Act of 1996 (the "Act")

Without the installation, AT&T would be unable to provide specifically established coverage and capacity objectives. The utility pole is located within the limited geographic area whereby AT&T's radio frequency engineers determined that a wireless facility is required. The Act imposes substantial restrictions affecting the standard for granting the requested relief. The Act provides that: no laws or actions by any local government or planning or zoning board may prohibit, or have the effect of prohibiting, the placement, construction, or modification of communications towers, antennas, or other wireless facilities in any particular geographic area, see 47 U.S.C. §332(c)(7)(B)(i); local government or planning or zoning boards may not unreasonably discriminate among providers of functionally equivalent services, see 47 U.S.C. §332(c)(7)(B)(i); health concerns may not be considered so long as the emissions comply with the applicable standards of the FCC, see 47 U.S.C. §332(c)(7)(B)(iv); and, decisions must be rendered within a reasonable period of time, see 47 U.S.C. §332(c)(7)(B)(ii) and the Order commonly referenced as the applicable "shot clocks". The FCC shot clock in this instance is 60 days from the submission of the Application.

We respectfully assert that AT&T's proposed small cell facility is reasonable and reasonably complies with the requirements of the Town of Andover in light of the Order and state law. AT&T is willing to work with the Town of Andover with respect the deployment of its small cell facilities and we look forward to your feedback.

If you have any questions, please don't hesitate to contact me. We look forward to presenting this Application at an upcoming meeting.

Sincerely,

BROWN RUDNICK LLP

Edward D. Pare, Jr., Esq.

APPLICATION FOR SMALL CELL WIRELESS INSTALLATION

Content of Applications. Applications shall include the following information:

a. Applicant's name, address, telephone number and email address.

New Cingular Wireless PCS, LLC (d/b/a "AT&T") 550 Cochituate Road, Suites 13 & 14 Framingham, MA 01701 RD1090@att.com (Rich Detch)

b. Names, addresses, telephone numbers, and email addresses of anyone acting on behalf of the Applicant with respect to the application.

Ed Donnelly; Area Manager, External Affairs, State Legislative & Regulatory Affairs, AT&T Services Inc., 160 Federal Street, 17th Floor, Boston, MA 02110; 617-283-0210; ed441y@att.com.

Jeff Iacoviello; Site Acquisition for AT&T; Centerline Communications, 750 W Center St, Floor 3, West Bridgewater, MA 02379774.261.0043; jiacoviello@centerlinecommunciations.com.

Kevin Breuer, Radio Frequency Engineer for AT&T; 550 Cochituate Road, Suites 13 & 14, Framingham, MA 01701; KN2322@att.com.

Edward D. Pare, Jr., Outside Counsel; Brown Rudnick, LLP, 10 Memorial Blvd., Providence, RI 02903; 401.276.2639; epare@brownrudnick.com.

- c. Detailed drawings, with wet stamp/wet signature, and descriptions of the equipment to be installed, whether mounted on poles or on the ground, or otherwise, including:
 - ii. Type of equipment

See enclosed Plans.

ii. Specifications of equipment (including but not limited to dimensions and weight of each piece of equipment and of all equipment)

See enclosed Plans.

iii. Dimension of each piece of equipment and total dimension of all equipment

See enclosed Plans.

iv. Costs of all equipment and installation

The costs are estimated to be \$25,000.

v. Equipment mount type and material

See enclosed Plans.

vi. Power source or sources for equipment, including necessary wires, cables and conduit.

See enclosed Plans - power and fiber to be determined by utility providers.

vii. Expected life of equipment

The expected life of the proposed equipment is estimated to be approximately 15-20 years.

viii. Coverage area of equipment, including:

1. Amount of antennas

One

2. Antenna model

Galtronics Model #6480/6621 GQ2410-06621 (or equal)

3. Antenna length **24.7**"

4. Remote radio units (RRU) count and power Three (3) RRUs, standard electrical power

5. Antenna height

Top height of antenna 31'9" above ground level; the existing utility pole is 28'9" above ground level.

6. Typical coverage area radius

Varies depending on terrain, obstructions and usage.

Also see the enclosed Plans, RF Report and Coverage Maps. The RRUs use standard electrical power provided by National Grid.

- ix. Call capacity of equipment, including:
 - 1. Total RRUs

One (1) 2205 RRU and two (2) paired 2203 RRUs for a total of three (3) RRUs $\,$

2. Max bandwidth per RRU

The 2205 RRU is capable of three (3) 20 Mhz channels with a theoretical throughput of 600 megabits per second (Mbps). The two (2) paired 2203 RRUs are capable of one (1) 20 Mhz channel with theoretical throughput of 390 Mbps.

Town of Andover September 11, 2019 Page 5

- 3. Multiple input, multiple output (MIMO) per RRU
 The 2205 RRU is 2x2 MIMO and the two (2) paired 2203 RRUs
 are 4x4 MIMO.
- 4. Backhaul rate per RRU **10 gigabits per second**

As noted on the Plans, AT&T's RRUs are within the proposed equipment cabinet and will not be visible.

- x. Hardening, including:
 - 1. If there is battery backup

There is no battery backup proposed.

- 2. If there is generator backup
 - There is no generator backup proposed.
- 3. If there are multiple fiber paths to switch **AT&T** will likely maintain more than one fiber paths to its switch.
- xi. Frequency of equipment proposed to be installed.

 As noted in the enclosed RF Report. AT&T utilizes 700, 850, 1900, 2100 and 2300 MHz frequencies.
- d. Photos, renderings, and elevation of equipment proposed to be installed.

See enclosed photos and photo simulations and the elevation on the Plans.

e. Detailed map with locations of the poles or other structure on which equipment is to be located, including specific pole identification number, if applicable, and the areas it will service. The data must be supplied in a format that can be uploaded as a data layer to the Town's GIS map.

See enclosed Plans and map.

f. Detailed map showing existing and proposed small cell installations within 500 feet of the Application site.

There are no existing small cell installations within 500 feet of the Site. AT&T is not aware of any proposed small cell installation within 500 feet of the Site.

g. Certification by a registered professional engineer that the pole/or location will safely support the proposed equipment.

See enclosed structural report.

h. Written consent from the pole, structure, or facility owner to the installation.

Please see the enclosed letter of authorization from National Grid to seek approval for the small cell facility at the Site. AT&T has entered into a pole attachment agreement with National Grid.

i. Affidavit from a Radio Frequency Engineer outlining the network/network service requirements in Andover and how the installations address that need in Andover. Such affidavit should characterize the current level of coverage and how the desired installations will change the current level of coverage, through or with coverage maps, including current and proposed coverage, including a breakdown of "excellent" "good and "poor" reception areas.

Please see the enclosed RF Report and Coverage Maps from AT&T's radio frequency engineer.

j. Insurance certificate evidencing workers' compensation coverage, and comprehensive general liability coverage for the installation.

Please see the enclosed certificate of insurance.

- k. Description as to why the desired location is superior to other similar locations, from a community perspective, including:
 - i. Visual aspects
 - ii. Proximity to residential structures

The Site is located in the public right-of-way along Route 133 in an area containing commercial uses. The proposed small cell facility will be located on an existing utility pole. The antenna is unobtrusive and is only 24.7" in height. The equipment cabinet is 32" long by 18" wide by 15" deep and will be attached to the pole at least 11'6" from the ground. The closest structure is at 323 Lowell Street and contains a medical facility. The Site is within the public right-of-way but is near the Limited Service and Single Residence C zoning districts and appears to be within the Single Residence C zoning district.

l. Description of efforts to co-locate the equipment on existing structures, poles, or towers which currently exist or are under construction. A good faith effort to co-locate is required and evidence of such efforts must be included within the application.

AT&T proposes to attach to an existing utility pole.

m. An Affidavit from the applicant which certifies that it will maintain the installations in good repair and according to FCC standards, and will remove any installation not in such

good repair, or not in use, within 60 days of being no longer in good repair or no longer in use.

See the enclosed "Letter of Authorization" from AT&T certifying same.

n. Completed cover sheet on Town form, using extra sheets as necessary to provide all information.

See the enclosed completed Cover Sheet.

o. Surety bond on which the Town is obligee, in an amount equal to the cost of installation, to ensure removal of equipment.

See enclosed removal bond in the amount of \$25,000.

3. Annual Re-Certification and Affidavit.

- a. Each year on July 1 the party responsible for the equipment maintenance shall submit an affidavit which shall list, by location, all small cell wireless installations it maintains within the Town of Andover by location, and shall certify: (1) each such installation that remains in use; (2) that such in use installations remain covered by insurance as required by MassDOT; and (3) each such I installation which is no longer in use.
- b. The party responsible for the equipment maintenance shall pay an annual recertification fee of \$100 per installation which remains in use.
- c. Any small cell wireless installation which is no longer in use shall be removed by the party responsible for its maintenance within 60 days of receipt of the annual recertification affidavit, at that party's expense.
- d. Any small cell wireless installation which is not removed within 60 days after being listed as no longer in use in the annual re-certification affidavit shall be subject to a fine of \$100/day against the party responsible for the equipment's maintenance until such installation is removed.
- e. Where such annual re-certification has not been timely submitted, or equipment no longer in use has not been removed within the required 60-day period, no further applications for small cell wireless installations will be accepted by the Town until such time as the annual re-certification has been submitted and all fees and fines paid.

To the extent not preempted by federal or state laws, regulations or orders, and while reserving all rights, AT&T agrees to comply with these provisions. It is not clear why there is a reference to "MassDOT" above in 3(a).

4. Prohibitions.

- a. No small cell wireless installations shall be installed on double poles.
- b. No small cell wireless installation shall be installed on poles which are not ADA compliant.
- c. No small cell wireless installations shall remain within the Town right of way or on Town property which has not been certified as in use in the annual recertification affidavit.
- d. No small cell wireless installation equipment shall be replaced or altered without a reapplication, hearing, and approval from the Board of Selectmen unless the equipment is no longer properly functioning, and it is being replaced with the same or substantially similar equipment.
- e. No application may seek approval of more than five (5) proposed facilities.
- f. No applicant or closely held applicant may file more than two (2) applications within 60 days of another.
- g. No emailed applications shall be accepted for filing.

To the extent not preempted by federal or state laws, regulations or orders, and while reserving all rights, AT&T agrees to comply with these provisions.

a. No equipment may be used that is manufactured by a company whose equipment is banned from use by any branch or department of the U.S. government.

To the extent not preempted by federal or state laws, regulations or orders, and while reserving all rights, AT&T agrees to comply with this provision.

Town of Andover Small Cell Wireless Facility

and similar structures

Design Rules and Regulations AT&T's Responses

1. ADOPTION

These Rules and regulations are intended to cover the general standards and aesthetics for the design and installation of Small Cell and similar technology.

To the extent not preempted by federal or state laws, regulations or orders, and while reserving all rights, AT&T agrees to comply with these provisions.

2. SITING PROHIBITIONS

Small Cell infrastructure is not permitted to be installed on:

- a. No small cell wireless installation shall be installed on Double Poles
- b. No small cell wireless installation shall be installed on poles which are not ADA compliant.
- c. No equipment shall be placed inconsistent with ADA regulations for passage around said infrastructure.
- d. Cabinets or other small cell infrastructure may not be placed within the travel way of the sidewalk to impede ADA accessibility. Sidewalk travel ways shall maintain a minimum of 4 feet in width to accommodate the snow clearing vehicles along the sidewalks.
- e. No small cell wireless installations shall remain within the Town right of way or on Town property which has not been certified as in use in the annual recertification affidavit.
- f. No small cell wireless installation equipment shall be replaced or altered without a reapplication, hearing, and approval from the Board of Selectmen unless the equipment is no longer properly functioning, and it is being replaced with the same or substantially similar equipment.

To the extent not preempted by federal or state laws, regulations or orders, and while reserving all rights, AT&T agrees to comply with these provisions.

3. AESTHETIC REQUIREMENTS FOR SMALL CELL WIRELESS FACILITIES

- a. Except when Small Cell infrastructure is attached to a wood pole, poles and all equipment must be the same color and finish as surrounding streetlight poles or third party poles.
- b. Exposed wires are not permitted.
 - 1. Corporate or company names (except for location identification purposes noted below), logos, identifying graphics or other advertisements shall not be painted, embossed, applied or displayed in any manner on the poles, equipment enclosures (boxes, cabinets, etc.), hand hole covers, or other component of the pole.
 - 2. Individual location identification information will be permitted, provided no letter, number, or graphic symbol is taller than one inch in height.
- c. Standalone Poles: The height of any standalone pole including its antenna(e) shall not exceed 32 feet or no more than 10 percent taller than other adjacent poles, whichever is greater.
- d. Wood Poles: The height of any replacement wood pole including its antennae shall not exceed 45 feet.

AT&T proposes to use an existing wood utility pole in the public right-of-way which is 28'9". To the extent not preempted by federal or state laws, regulations or orders, and while reserving all rights, AT&T agrees to comply with these provisions.

4. ANTENNAS

- a. Each small wireless antenna shall be located entirely within a shroud or canister type enclosure.
- b. The diameter of the antenna enclosure at its widest point should not be wider than two times the diameter of the top of the wireless support structure. The enclosure shall not exceed six cubic feet in volume.
- c. All antenna enclosures shall either be mounted to the top of the wireless support structure pole and aligned with the centerline of the wireless support structure, or mounted to the side of the wireless support structure such that the vertical centerline of the antenna enclosure shall be parallel with the wireless support structure with the height of the side mounted antenna being at a location on the wireless support structure noted in the application and approved by the Town, but at least 10 feet above ground level at its lowest point.
- d. Tree "topping" or the improper pruning of trees is prohibited. Any proposed pruning or removal of trees, shrubs or other landscaping already existing in the Right of Way must be noted in the application and must be approved by the Town Tree Warden.

AT&T's proposed antenna will be attached to an existing wood utility pole in the public right-of-way and is 10" diameter and is 1.22 cubic feet in volume. To the extent

Town of Andover September 11, 2019 Page 11

not preempted by federal or state laws, regulations or orders, and while reserving all rights, AT&T agrees to comply with these provisions.

5.1 Cables and Wires

All cables, wires and connectors related to the small wireless facility must be fully concealed on the wireless support structure and shall match the color of the wireless support structure. There shall be no external cables and wires related to the small wireless facility hanging off or otherwise exposed on the wireless support structure.

To the extent not preempted by federal or state laws, regulations or orders, and while reserving all rights, AT&T agrees to comply with these provisions to the maximum extent possible.

5.2 Colors

All colors shall match the background of any wireless support structure that the facilities are located upon, including equipment cabinets. Notwithstanding the foregoing, in the case of existing wood utility poles, finishes of conduit shall be zinc, aluminum or stainless steel, or colored to match those metal finishes, and equipment cabinets shall be the color of brushed aluminum.

To the extent not preempted by federal or state laws, regulations or orders, and while reserving all rights, AT&T agrees to comply with these provisions to the maximum extent possible.

5.3 Equipment Enclosures / Concealment

- a. Equipment enclosures, including electric meters, shall be as small as possible, but in no event larger than 28 cubic feet in volume. Ground-mounted equipment shall incorporate concealment elements into the proposed design matching color and materials of the wireless support structure, unless other materials or colors are approved by the Town. Concealment may include, but shall not be limited to, landscaping, strategic placement in less obtrusive locations and placement within existing or replacement street furniture.
- b. Radio equipment shall be fully enclosed within an equipment cabinet or concealed within the antenna shroud enclosure matching the color and materials of the wireless support structure, unless other materials or colors are approved by the Town.
- c. Landscaping concealing equipment enclosures shall be planted in such quantity and size such that 100% screening is achieved within two years of installation.

AT&T's proposed equipment cabinet is 3.86 cubic feet in volume an AT&T will work with the Town of Andover to provide the best color to match the wood utility pole and surroundings. To the extent not preempted by federal or state laws, regulations or orders, and while reserving all rights, AT&T agrees to comply with these provisions.

5. SIGNAGE/LOGOS/LIGHTS/DECALS/COOLING FANS

- a. Signage: The small wireless facility permittee shall post its name, location identifying information, and emergency telephone number in an area on the cabinet of the small wireless facility that is visible to the public. Signage required under this section shall not exceed 4 inches by 6 inches, unless otherwise required by law (e.g. radio-frequency (RF) ground notification signs) or the Town. If no cabinet exists, the signage shall be placed at the base of the pole.
- b. Lights: New small wireless facilities and wireless support structures shall not be illuminated, except in accord with state or federal regulations, or unless illumination is integral to the camouflaging strategy such as design intended to look like a street light pole.
- c. Logos/Decals: The small wireless facility operator/permittee shall remove or paint over unnecessary equipment manufacturer decals. The color shall match or shall be as approved by the Building Inspector. Small wireless facilities and wireless support structures shall not include advertisements and may only display information required by a federal, state, or local agency. The small wireless facility operator/permittee shall utilize the smallest and lowest visibility RF warning sticker required by government or electric utility regulations. Placement of the RF sticker shall be as close to the antenna as possible.
- d. Cooling Fans: In residential areas, the small wireless facility operator/permittee shall use a passive cooling system. In the event that a fan is needed, the small wireless facility operator/permittee shall use a cooling fan with a low noise profile.

Please see the enclosed Plans with respect signage. To the extent not preempted by federal or state laws, regulations or orders, and while reserving all rights, AT&T agrees to comply with these provisions.

7. LOCATION REQUIREMENTS

7.1 Most Preferable Locations

The following are the most preferred areas for new small wireless facilities in the order of preference (1 being most preferable):

- 1. Industrial Districts if not adjacent to a park, residential district or historic district.
- 2. Public Rights of Way areas if not adjacent to a park, residential district.

Town of Andover September 11, 2019 Page 13

AT&T notes that the Site is located in the public right-of way along Route 133. The Site is located in an area containing commercial uses and is just off of the Interstate Route 93 exit ramp. Under Massachusetts law, while public rights-of-way are not within designated zoning districts, accordingly to the Andover Zoning Map, this Site may be designated as being within the Single Residence C or the Limited Service zoning district.

7.2 Collocation Preference

It is the Town's strong preference that whenever an applicant proposes to place a new small wireless facility that the applicant collocate the same on existing wireless support structures.

AT&T is proposing to collocate on an existing wood utility pole.

7.3 Least Preferable Location

The following are the least preferred areas for new small wireless facilities in the order of preference (2 being least preferable).

- 1. Residential Districts
- 2. Parks

See response to Section 7.1.

7.4 Consideration of Alternate Locations

The Town reserves the right to propose an alternate location for a small wireless facility and/or wireless support structure to the location proposed in the application within one hundred feet of the proposed location or within a distance that is equivalent to the width of the Right of Way or structure in or on which the small wireless facility and/or wireless support structure is proposed, whichever is greater, which the operator shall use if it has the right to use the alternate location on reasonable terms and conditions and the alternate location does not impose technical limits or additional costs.

AT&T's propose facility fully complies with these Rules and Regulations. AT&T is willing to work cooperatively with the Town of Andover but notes that any alternative location would impose additional cost on AT&T.

7.5 General limits: Adherence to Other Applicable Standards

If a streetscape is redesigned in the future, including, but not limited to the location and type of streetlights, small cell providers will be required to remove their infrastructure at their own cost and apply to reinstall small cell infrastructure in accordance with these guidelines and the new streetscape.

This provision is not applicable to this Application.

7.6 Guidelines on Placement

The Town desires to promote cleanly organized and streamlined facilities using the smallest and least intrusive means available to provide wireless services to the community. Generally, a small wireless facility and/or wireless support structure shall match and be consistent with the materials and finish of the wireless support structure, adjacent poles and structures, and of the surrounding area adjacent to their location.

The following additional guidelines on placement shall apply:

- a. Small wireless facilities and wireless support structures shall be located no closer than 150 feet away, radially, from another small wireless facility and wireless support structure.
- b. A combination wireless support structure and streetlight pole should only be located where an existing pole can be removed and replaced, or at a new location where it has been identified that a streetlight is necessary.
- c. Small wireless facilities and wireless support structures shall be located in a manner that does not impede, obstruct, or hinder usual public pedestrian or vehicular travel or public safety on a Right of Way.
- d. Small wireless facilities and wireless support structures shall be located in a manner that does not obstruct the legal use of a Right of Way by a utility provider.
- e. Small wireless facilities and wireless support structures shall be located in a manner that does not violate or conflict with the zoning and general bylaws, applicable law and regulations, or this policy.
- f. Small wireless facilities and wireless support structures shall be located in a manner that does not violate the federal Americans with Disabilities Act.
- g. Small wireless facilities and wireless support structures shall be located in a manner that does not negatively impact the structural integrity of the associated wireless support structure.
- h. Small wireless facilities and wireless support structures shall be located in alignment with existing trees, utility poles, streetlights, and buildings.
- i. Small wireless facilities and wireless support structures shall be located equidistant between trees when possible, with a minimum of 15 feet separation such that no proposed disturbance shall occur within the critical root zone of any tree.
- j. Small wireless facilities and wireless support structures shall be located with appropriate clearance from existing utilities.
- k. Small wireless facilities and wireless support structures shall be located so as not to be located along the frontage of any building deemed to be of historic significance on a federal, state, or local level.

- 1. Small wireless facilities and wireless support structures shall be located not within sight triangles at street intersections.
- m. New wireless support structures shall not be located directly in front of any existing residential, commercial or industrial structure.

To the greatest extent possible, new wireless support structures shall be located in line with existing lot lines or an equidistance from any two existing structures. In areas of the Town where multiple structures abut each other and/or where no side lot setback requirements exist, new wireless support structures shall not be located directly in front of an entrance or window of any existing structure.

To the extent not preempted by federal or state laws, regulations or orders, and while reserving all rights, AT&T agrees to comply with these provisions.

8. PEDESTRIAN PATH AND AMENITY ZONE

- a. The sidewalk area of public space is typically delineated into the pedestrian path and the amenity zone. The amenity zone is located between the pedestrian path and the roadway and provides access between the two as well as the area for street trees, streetlights and traffic signals, and other functional elements. It is critical that all pedestrian paths are clear to facilitate safe and optimal access and circulation along sidewalks.
- b. Standalone poles shall not be located in the clear pedestrian path
- c. Standalone poles shall be aligned with existing streetlights, third party poles, and street trees as applicable in order to maintain a visual and physical organization of structures within the right-of-way, as measured from the center of the base of the pole. When streetlight and street tree alignment are offset within the amenity or curbside zones, prioritize alignment of the small cell facility with streetlights.
- d. All measurements shall be taken from the outer edge of the standalone pole and the infrastructure listed in the following specific limits/prohibitions.
- e. Standalone poles must be placed a minimum of six feet (6') from existing fire hydrants or buildings' fire connections.
- f. Standalone poles shall be located a minimum of 10 feet (10') from light poles and traffic signal poles.
- g. Standalone poles shall be located a minimum of 3 feet (3') from bicycle racks and shall not impede the attachment of bicycles.
- h. Standalone poles shall be placed a minimum of ten feet (10') from any above grade building face, including bay windows, show windows and building projections or overhangs.
- i. Poles should be located, to the maximum extent possible, to minimize impact on businesses and residential mixed-use development by avoiding placement directly in front of building entrances, alignment with windows, primary entry walks, or delivery zones or entrances.

To the extent not preempted by federal or state laws, regulations or orders, and while reserving all rights, AT&T agrees to comply with these provisions.

9. ACCESS, CIRCULATION AND SIGHT DISTANCES

- a. Safe and functional access, circulation, and clear sight lines are important for pedestrian ease of movement and to maintain unobstructed line of sight among drivers, pedestrians, bicyclists.
- b. Standalone poles shall not obstruct ADA access, including maintaining a clear landing at the top of curb ramps at crosswalks.
- c. Pole placement shall not impede, obstruct, violate, conflict with, or hinder any mode of travel over or access to any public street, bridge, tunnel, highway, lane, path, alley, sidewalk, or driveway, including but not limited to the obstruction of sight lines.
- d. Poles shall be placed consistent with the most current Manual on Uniform Traffic Control Devices and adopted District standards for maintenance of an intersection's sight line triangles.
- e. A minimum of fifteen feet (15') shall be maintained between the pole and the outside edge of the alley or driveway.

To the extent not preempted by federal or state laws, regulations or orders, and while reserving all rights, AT&T agrees to comply with these provisions.

10. OTHER REQUIRED SUBMISSION INFORMATION

- b. A composite map of all the desired locations of the small cell providers to understand the total need for facilities and the areas of highest demand within the study area.
 - AT&T seeks approval for one (1) small cell facility at this time. As network design and budgets permit, AT&T may seek additional locations for small cell facilities. Please see AT&T's network coverage maps for levels of existing coverage regarding potential additional needs for small cell facilities.
- c. An understanding as to why there is no requirement for multiple providers to share infrastructure (hoteling) and whether this could occur if the number of allowable poles were reduced.
 - AT&T cannot share its infrastructure with competitors and under federal and state law, is permitted to provide service and install infrastructure in the Town of Andover. We understand National Grid will only allow one (1) small cell facility on any one (1) utility pole.

Town of Andover September 11, 2019 Page 17

11. LIMITATIONS

While the Town fully intends to apply the guidelines established in this policy uniformly to all small wireless facility applications, there may be circumstances where not every specific guideline may be met. In these cases, Town staff will use its reasonable discretion in approving small wireless facilities permit applications that deviate from the strict application of this policy.

AT&T is willing to work cooperatively with the Town of Andover

12. EFFECTIVE DATE OF POLICY

This Policy will be effective as of the 11th of April, 2019. Modifications of the Design Rules and Regulations may be modified from time to time by the Andover Board of Selectman.

No response to this provision is required.

63478543 v2-WorkSiteUS-024519/1096

Town of Andover Applications for Small Cell Wireless Installations Cover Sheet

Applicant's use of this cover sheet is mandatory. It is meant to provide a framework to ensure compliance with the Town of Andover's Policy for Applications for Small Cell Wireless Installations.

Total number of Small Wireless Facilities being requested on this application one (1) (Per town policy, no application may exceed 5 proposed facilities)
Total number of applications filed by the applicant or closely held applicant in the last 60 days (Per town policy, no application will be accepted if more than 2 applications have been filed in that time period) Zero (0)
☐ Date and Time stamped on each application
\$500 made out to the Town of Andover for up to five locations for initial application review \$100 for each additional location
All applications shall number each page with easily identifiable identifier numbers unique to each application
Specify whether the application is under the FCC Declaratory Ruling and Third Report and
Order, §6409/Wireless Siting Order, or neither: <u>FCC Declaratory Ruling and Third Report and Order 18-133</u> Massachusetts General Laws Chapter 166 Sections 21, 22 and 25/
a. If §6409 application, submit documentation to establish the basis for that conclusion
Specify which shot clock (60-90-150 day) applies and the basis for that conclusion: 60 Days
10 day receipt date
Applications complete, including receipt of all permits or notification that a permit was not needed except for a building permit from other town boards and commissions applicable to the proposed locations and facilities? Yes No
Checklist of prior reviewing departments (insert Y, N, or N/A)
Police
Fire
Board of Health
Conservation Commission
Planning

Engineering Building Other (specify)
a. Submit a copy of all such received permits or verification that no permit is needed
If no, which applications are incomplete (any incomplete applications will be rejected)
a. Identify how each application is incomplete
Date and time of re-submission
Public Hearing Notice published in a newspaper of general circulation and mailed to abutters within 300 feet of the proposed locations by applicant using notice provided by Town. The applicant must obtain the certified abutter's list from the Assessor's Office.
Public Hearing fee is paid for by applicant.
Ten (10) hard copies of the application are required One (1) electronic copy to manager@andoverma.gov sent on
Applicant's nameNew Cingular Wireless PCS, LLC (d/b/a "AT&T")
Address 550 Cochituate Road, Suites 13 & 14, Framingham, MA 01701
Telephone number 508-596-9245 Email address. Rd1090@att.com (Richard Detch)
Names, addresses, telephone numbers, and email addresses of anyone acting on behalf of the Applicant with respect to the application.
For application process please contact: Jeff lacoviello, 774-261-0043, jiacoviello@centerlinecommunications.com
Ed Donnelly, External Affairs, AT&T Services Inc., 160 Federal Street, 17th floor, Boston MA, 02110, 617-283-0210
Edward D. Pare, Jr., Brown Rudnick LLP, One Financial Center, Boston, MA 02111, epare@brownrudnick.com Kevin Breuer, RF Engineer, AT&T Mobility; 550 Cochituate Road, Suites 13 & 14, Framingham, MA 01701; KB2322@att.com
Nevin breder, Nr. Engineer, AT&T Mobility, 550 Cochitate Noad, Suites 15 & 14, 1 familigram, MA 01701, N. D2522 & att. com
Ensure that wet stamps/wet signatures of professional designers are on all drawings
Include detailed drawings and descriptions of the equipment to be installed, whether mounted on
poles or on the ground, or otherwise, including: See enclosed Plans.
Description of type of equipment See enclosed Plans.

Specifications of equipment See enclosed Plans.

Dimension of each piece of equipment and total dimensions of all equipment See enclosed Plans.

Costs of all equipment and installation \$25,000

Total weight at each location

How will equipment be mounted and what type of material will be used to mount equipment **See enclosed Plans.**

All power sources for equipment (comment on necessary wires, cables, and conduit)

See enclosed Plans - power and fiber to be determined by utility providers.

Expected life of equipment

The expected life of the proposed equipment is estimated to be approximately 15-20 years.

Coverage area of equipment on the location

Amount of antennas

One

Antenna model

Galtronics Model #6480/6621 GQ2410-06621 (or equal)

Antenna length remote radio units (RRU) count and power

24.7" (Antenna length). Three (3) RRUs, standard electrical power

Antenna height

Top height of antenna 31'9" above ground level; the existing utility pole is 28'9" above ground level.

Typical coverage area radius

Varies depending on terrain, obstructions and usage.

Call capacity of equipment, including:

Total RRUsOne (1) 2205 RRU and two (2) paired 2203 RRUs for a total of three (3) RRUs

Max bandwidth per RRU The 2205 RRU is capable of three (3) 20 Mhz channels with a theoretical throughput of 600 megabits per second (Mbps). The two (2) paired 2203 RRUs are capable of one (1) 20 Mhz channel with theoretical throughput of 390 Mbps.

Multiple input, multiple output (MIMO) per RRU

The 2205 RRU is 2x2 MIMO and the two (2) paired 2203 RRUs are 4x4 MIMO.

Backhaul rate per RRU 10 gigabits per second

As noted on the Plans, AT&T's RRUs are within the proposed equipment cabinet and will not be visible.

Hardening, including:

Is there battery backup

a community perspective, including:

□Visual aspects

There is no battery backup proposed.

Is there generator backup

There is no generator backup proposed.

Will there be multiple fiber paths to switch

AT&T will likely maintain more than one fiber paths to its switch.

Frequency of equipment proposed to be installed.

As noted in the enclosed RF Report. AT&T utilizes 700, 850, 1900, 2100 and 2300 MHz frequencies. Photos, rendering and elevation of equipment proposed to be installed: See enclosed photos and photo simulations and the elevation on the Plans. Include detailed map with locations of the poles or other facility on which equipment is to be	
located, including specific pole identification number, if applicable, and the areas it will service. Location details must be provided to be compatible as an additional data layer to the	
See enclosed Plans and map.	
☐ Include detailed map showing existing and proposed small cell installations within 500 feet of	
the Application site. There are no existing small cell installations within 500 feet of the Site. AT&T is no aware of any proposed small cell installation within 500 feet of the Site.	ot
☐ Include certification by a registered professional engineer that the pole/or location will safely support the proposed equipment. See enclosed structural report.	
□ Include written consent from the pole, structure, or facility owner to the installation. Please see the enclosed letter of authorization from National Grid to seek approval for the small cell facility at the Site. AT&T has entered into a pole attachment agreement with National Grid. □ Include an affidavit from a Radio Frequency Engineer outlining the network/network service requirements in Andover and how the installations address that need in Andover. Such affidavit should characterize the current level of coverage and how the desired installations will change the current level of coverage, through or with coverage maps, including current and proposed coverage, including a breakdown of "excellent" "good and "poor" reception areas. Please see the enclosed RF Report and Coverage Maps from AT&T's radio frequency engineer.	1e
☐ Include insurance certificate evidencing workers' compensation and comprehensive general liability coverage for the installation. Please see the enclosed certificate of insurance.	

The Site is located in the public right-of-way along Route 133 in an area containing commercial uses. The proposed small cell facility will be located on an existing utility pole. The antenna is unobtrusive and is only 24.7" in height. The equipment cabinet is 32" long by 18" wide by 15" deep and will be attached to the pole at least 11'6" from the ground. The closest structure is at 323 Lowell Street and contains a medical facility. The Site is within the public right-of-way but is near the Limited Service and Single Residence C zoning districts and appears to be within the Single Residence C zoning district.

Include a description as to why the desired location is superior to other similar locations, from

□ Include a description of efforts to co-locate the equipment on existing structures, poles, or towers which currently exist or are under construction. A good faith effort to co-locate is required and evidence of such efforts must be included within the application.
AT&T proposes to attach to an existing utility pole.
☐ Include a narrative of how design requirements have been met.
□ Include an affidavit from the applicant which certifies that it will maintain the installations in good repair and according to FCC standards, and will remove any installation not in such good repair, or not in use, within 60 days of being no longer in good repair or no longer in use. See the enclosed "Letter of Authorization" from AT&T certifying same.
□ Include surety bond on which the Town is obligee, in an amount equal to the cost of installation, to ensure removal of equipment. See enclosed removal bond in the amount of \$25,000.

Annual Re-Certification and Affidavit.

- Each year on July 1 the party responsible for the equipment maintenance shall submit an affidavit which shall list, by location, all small cell wireless installations it maintains within the Town of Andover by location, and shall certify: (1) each such installation that remains in use; (2) that such in use installations remain covered by insurance as required by MassDOT; and (3) each such installation which is no longer in use.
- The party responsible for the equipment maintenance shall pay an annual re-certification fee of \$100 per installation which remains in use.
- Any small cell wireless installation which is no longer in use shall be removed by the owner within 60 days of receipt of the annual re-certification affidavit, at that party's expense.
- Any small cell wireless installation which is not removed within 60 days after being listed as no longer in use in the annual re-certification affidavit shall be subject to a fine of \$100/day against the party responsible for the equipment's maintenance until such installation is removed.
- Where such annual re-certification has not been timely submitted, or equipment no longer in use has not been removed within the required 60-day period, no further applications for small cell wireless installations will be accepted by the Town until such time as the annual re-certification has been submitted and all fees and fines paid.

To the extent not preempted by federal or state laws, regulations or orders, and while reserving all rights, AT&T agrees to comply with these provisions. It is not clear why there is a reference to "MassDOT" above in 3(a).

Agree to annual re-certification and affidavit and payment as shown above.

Conditions/Prohibitions.

- No small cell wireless installations shall be installed on double poles.
- No small cell wireless installation shall be installed on poles which are not ADA compliant.
- No small cell wireless installations shall remain within the Town right of way or on Town property which has not been certified as in use in the annual re-certification affidavit.

No small cell wireless installation equipment shall be replaced or altered without a reapplication, hearing, and approval from the Board of Selectmen unless the equipment is no longer properly functioning, and it is being replaced with the same or substantially similar equipment.
 To the extent not preempted by federal or state laws, regulations or orders, and while reserving all rights, AT&T

To the extent not preempted by federal or state laws, regulations or orders, and while reserving all rights, AT&T agrees to comply with these provisions.

Agree to Conditions/Prohibitions as set forth in town bylaws and policies.

As submitted by,

As submitted by,						
Jeff Iacoviello, Centerline Communications LLC						
Site Acquisition for AT&T						



40 Sylvan Road Waltham MA 02451

June 12, 2019

Attention: State and Municipal Permitting Authorities

RE: Evidence of Pole Attachment Agreement and Consent to File for Permits

Granted to AT&T Wireless

Sites:

Area6_28; 308 Lowell Street, Andover, MA 01810; Utility pole # 591-84; 42.647652' N, -71.183969 W

Area6_42; 5 Rasmussen Circle, Andover, MA 01810; Utility Pole #7869; 42.641886 N, -71.190695 W

To Whom It May Concern:

The undersigned jointly owns and controls certain utility poles in public rights-of-way and on private property throughout the geographic areas where it operates.

Please be advised that the undersigned has entered into a Pole Attachment Agreement ("Agreement") authorizing AT&T Wireless ("Applicant") to install, attach, maintain, repair, upgrade and use wireless communications equipment and appurtenances on certain utility poles pursuant to the terms and conditions of the Agreement. Permission is hereby granted to Applicant, or its agents, to make application for any Land Use, Access, Building, Electrical or Regulatory Permit(s) required to effectuate the initial installation, on-going maintenance and upgrades or replacements of said equipment.

Please contact me at (978) 725-1130 if you have any questions.

Amy Sullivan

Sincerelly.

Third Party Attachment Analyst





LETTER OF AUTHORIZATION

Andover Board of Selectmen 36 Bartlet Street Andover, MA 01810

RE: AT&T CRAN // Compliance Memo

Area6_28 - 308 Lowell Street, Utility Pole # 591-84

New Cingular Wireless PCS, LLC ("AT&T") is proposing a small cell wireless communications facilities at the above referenced properties in order to deal with capacity issues on the network.

AT&T hereby certifies that it will maintain the installations in good repair and according to FCC standards, and will remove any installation not in such good repair, or not in use, within 60 days of being no longer in good repair or no longer in use.

Regards,

Richard Digitally signed by Richard Detch Detch

Date: 2019.07.09 08:10:05 -04'00'

Richard Detch AT&T Mobility 550 Cochituate Road Suites 13 & 14 Framingham, MA 01701

RF Report

Proposed Andover CRAN Facility

(Site Area6_28- 308 Lowell Street, Utility Pole #591-84, Andover, MA)



July 10, 2019

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ATTACHMENTS

Exhibit 1: Current AT&T coverage in western portion of Andover Exhibit 2: Proposed AT&T coverage in western portion of Andover

1. Overview

New Cingular Wireless PCS, LLC ("AT&T") is providing the following information in support of its application to the Andover Board of Selectmen to construct and operate a telecommunications facility ("Facility") in Andover for its Personal Communication Services. The proposed Facility is to be located on the public right of way adjacent to 308 Lowell Street, Utility Pole #591-84, Andover, MA (the "Site"). The Facility is needed to provide coverage for significant capacity issues that exist along Lowell Street, as discussed in this report. This report addresses AT&T's need for the proposed Facility at the Site and confirms that there are no superior existing structures, buildings or towers in this part of Andover that would meet AT&T's coverage objectives for this area.

Included in this package are a brief summary of the proposed Facility's objectives, an analysis of alternate site candidates considered, and radio frequency ("RF") coverage plots showing the predicted propagation of the proposed Facility based on the antenna mounting height necessary to achieve AT&T's goals.

2. AT&T's Proposed Facility

As shown on the zoning drawing plans submitted with the zoning application, AT&T proposes to construct, operate and maintain a small cell personal wireless service Facility consisting principally of the following elements:

- One (1) utility pole (measuring 28" 9' in height).
- One (1) antenna (measuring 25 inches in height) mounted to the existing utility pole.
- One (1) remote radio head units (RRH) shroud (measuring 32 inches in height) ballast mounted on aforementioned utility pole below the antenna.
- Fiber optic and DC power cables running from aforementioned RRH shroud, along the pole, to the new electric meter.

3. Coverage and Capacity Objectives

AT&T provides digital cellular communications service and UMTS (also referred as 3G) technology in the 850 MHz and 1900 MHz frequency bands, as well as high speed data services commonly referred to as "long term evolution" ("LTE") operating in the 700, 850, 1900, 2100 and 2300 MHz frequencies, all as allocated by the Federal Communications Commission, ("FCC"). AT&T is recognizing substantial demand growth in wireless data and in efforts to meet current and future demand is bolstering its network using small cells to provide high quality

services covered under license from the FCC.

AT&T has determined that significant capacity demands on the network exist in Andover in the vicinity of I-93 and Rte. 133.

Wireless communication services are no longer limited to providing mobility for voice services. They have evolved to offer a wider range of advanced services to include wide-area voice, data, internet, video, and broadband wireless data, among others, all in a mobile environment. In order to offer these competitive services to local residents and businesses and commuters traveling in and through the Targeted Coverage Area, especially inside buildings, AT&T needs to improve the quality of its coverage by filling in as many of the existing gaps with adequate capacity, quality and signal strengths conducive to in-building and in-vehicle usage, and to provide the same bandwidth requirements in order to meet the increasing demand on the network.

4. Site Search and Selection Process/Candidate Evaluation

To find a site location that provides acceptable service and fills the gaps in coverage and capacity, computer modeling is used to define a search ring. The search ring is designed such that a site located within the ring would have a high probability of completing coverage in the Targeted Coverage Area (assuming that sufficient height is used).

Once the search ring is determined, AT&T's real estate consultants search within the defined area for existing buildings or tower structures of sufficient height that would fill coverage gaps and capacity deficiencies within the network. As more fully explained below, AT&T does not have an existing wireless facility that is capable of providing the required services to the Targeted Coverage Area. From both radio frequency coverage, quality, capacity and zoning perspectives, the proposed site at 308 Lowell Street, Utility Pole #591-84 is found to be best of all alternative site possibilities.

5. Alternative Site Analysis

AT&T has been unable to identify any existing or approved wireless facility or other suitable existing or approved building or tower in the specified search area of Andover from which to address the significant coverage gaps in the Targeted Coverage Area, besides the utility pole located at 308 Lowell Street, Utility Pole #591-84. Target pole is the only allowed use pole that will meet AT&T's coverage objective. The Site would provide the coverage that AT&T's Radio Frequency experts are looking to achieve. Other buildings did not meet height objectives. Likewise, other locations in the areas permitted under the Andover Zoning Bylaw did not meet the coverage objectives. Without a wireless facility at the Site, AT&T would be effectively prohibited from providing adequate coverage.

6. Coverage Plots

To demonstrate why the proposed Facility is necessary, I have developed the following radio frequency coverage maps:

- Exhibit 1, entitled "Current AT&T coverage in western portion of Andover", shows AT&T's existing wireless coverage in and around the Targeted Coverage Area without the Facility.
- Exhibit 2, entitled "Proposed AT&T coverage in western portion of Andover", shows AT&T's proposed coverage in and around the Targeted Coverage Area with the Facility installed at the Site.

These coverage maps were generated using Forsk Atoll, an RF Propagation computer modeling program. The software takes into account the geographical features of an area, antenna models, antenna heights and RF transmitting power. The pie-shaped symbols depict existing wireless facility site locations. The areas in blue will have adequate outdoor or "in-vehicle" coverage, but insufficient signal strength for reliable in-building service. The areas in green will have good in-building service as well.

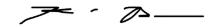
The map showing coverage without the proposed Facility indicates that AT&T cannot achieve its coverage objective with currently existing sites. Accordingly, the proposed Facility at the Site is necessary to fill coverage gaps, address capacity issues and upgrade AT&T's wireless service in and around the Targeted Coverage Area.

7. Summary

No other existing structures are better suited than the subject Site to provide the coverage and capacity requirements needed for this area of Andover, Massachusetts. The location and the Facility configuration were chosen to achieve an optimal balance between meeting coverage objectives and minimizing the aesthetic impact to the community while fully complying with the Andover Zoning Bylaw. The Facility will comply with all applicable FCC regulations regarding RF emissions and other matters. The proposed Facility site is feasible and appropriate, and will improve wireless service along Memorial Drive and the surrounding vicinity.

8. Statement of Certification

I certify to the best of my knowledge that the statements in this report are true and accurate.



Kevin Breuer, RF Engineer AT&T Mobility 62946219 v2

7/10/2019

Date

TOWER / STRUCTURE / ANTENNA / EQUIPMENT REMOVAL BOND

	308 Lowell St, Andover, MA
	Site:Area 6-28 CRAN
	Fixed Asset No 14814909
	Bond Number: 107085184
KNOW ALL MEN BY THESE PRESENTS:	
THAT New Cinquiar Wireless PCS_LLC_550 Cochit	uate Road Framinghom MA 04704
THAT New Cingular Wireless PCS, LLC, 550 Cochit Principal, and Travelers Casualty and Surety Company of An	nerica a cornoration duly organized
under the laws of the State of Connecticut	as Surety, are held and firmly bound
unto Town of Andover, 36 Bartlett Street as Obligee, the penal sum of Twenty-f \$25,000.00	t, Andover, MA 01810
(ive Thousand And No/100
heirs, executors, administrators, successors and assigns, joi the liability of the surety being limited to the penal sum of this bond is in effect.	bond regardless of the number of years the
WHEREAS, the Principal has entered into a written placement of a tower, structure or equipment furnishing telescrice, which agreement sets forth the terms and conditionstructures or equipment and which agreement is hereby specific.	ephone, television or other electronic media
WHEREAS, the	agreement and/or the property cement, removal or relocation of said tower
NOW THEREFORE, the condition of this obligation is shall perform in accordance with the aforesaid ordinance an against all loss caused by Principal's breach of any ordinance replacement, removal or relocation of a tower, structure or explacement or remain in full force and effect unless cancelled as	id/or agreement, and indemnify the Obligee e or agreement relating to the maintenance, quipment, then this obligation shall be void,
THIS BOND may be cancelled by Surety by giving _ Obligee by certified mail. Such cancellation shall not affect a bond prior to the effective date of the termination.	s set forth below. 30 days written notice to the ny liability the surety has incurred under this.
PROVIDED that no action, suit or proceeding shall be inless the action is brought within twelve (12) months of the c	maintained against the Surety on this bend ancellation date of this bond.
SIGNED and sealed this day of Ju	ine,,
New Cingula	r Wireless PCS, LLC
Principal: by AT&T Mo	bility Corporation its manager
Store Store Store	Stacy Roth Assistant Treasure
HARTFORD, Supply: Travelers Ca	sualty and Surety Company of America
phid	i a Ublheisen

Heidi A. Notheisen, Attorney-in-Fact



Travelers Casualty and Surety Company of America Travelers Casualty and Surety Company St. Paul Fire and Marine Insurance Company

POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS: That Travelers Casualty and Surety Company of America, Travelers Casualty and Surety Company, and St. Paul Fire and Marine Insurance Company are corporations duly organized under the laws of the State of Connecticut (herein collectively called the "Companies"), and that the Companies do hereby make, constitute and appoint Pamela A. Beelman, Heldi A. Notheisen, Cynthia L. Choren, Debra C. Schneider, JoAnn R. Frank, Karen L. Roider, Sandra L. Ham, and Brittany D. Clavin, of St. Louis, Missouri, their true and lawful Attorney-in-Fact to sign, execute, seal and acknowledge any and all bonds, recognizances, conditional undertakings and other writings obligatory in the nature thereof on behalf of the Companies in their business of guaranteeing the fidelity of persons, guaranteeing the performance of contracts and executing or guaranteeing bonds and undertakings required or permitted in any actions or proceedings allowed by law.

INWITNESS WHEREOF, the Companies have caused this instrument to be signed, and their corporate seals to be hereto affixed, this 3rd day of February, 2017.







State of Connecticut

City of Hartford ss.

Robert L. Raney, Seftfor Vice President

On this the 3rd day of February, 2017, before me personally appeared Robert L. Raney, who acknowledged himself to be the Senior Vice President of Travelers Casualty and Surety Company of America, Travelers Casualty and Surety Company, and St. Paul Fire and Marine Insurance Company, and that he, as such, being authorized so to do, executed the foregoing instrument for the purposes therein contained by signing on behalf of the corporations by himself as a duly authorized officer.

In Witness Whereof, I hereunto set my hand and official seal.

My Commission expires the 30th day of June, 2021



Marie C. Tetreault, Notary Public

Mughes, Assistant Secretary

This Power of Attorney is granted under and by the authority of the following resolutions adopted by the Boards of Directors of Travelers Casualty and Surety Company of America, Travelers Casualty and Surety Company, and St. Paul Fire and Marine Insurance Company, which resolutions are now in full force and effect, reading as follows:

RESOLVED, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President, any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary may appoint Attorneys-in-Fact and Agents to act for and on behalf of the Company and may give such appointee such authority as his or her certificate of authority may prescribe to sign with the Company's name and seal with the Company's seal bonds, recognizances, contracts of indemnity, and other writings obligatory in the nature of a bond, recognizance, or conditional undertaking, and any of said officers or the Board of Directors at any time may remove any such appointee and revoke the power given him or her; and it is

FURTHER RESOLVED, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President may delegate all or any part of the foregoing authority to one or more officers or employees of this Company, provided that each such delegation is in writing and a copy thereof is filed in the office of the Secretary; and it is

FURTHER RESOLVED, that any bond, recognizance, contract of indemnity, or writing obligatory in the nature of a bond, recognizance, or conditional undertaking shall be valid and binding upon the Company when (a) signed by the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary and duly attested and sealed with the Company's seal by a Secretary or Assistant Secretary; or (b) duly executed (under seal, if required) by one or more Attorneys-in-Fact and Agents pursuant to the power prescribed in his or her certificate or their certificates of authority or by one or more Company officers pursuant to a written delegation of authority; and it is

FURTHER RESOLVED, that the signature of each of the following officers: President, any Executive Vice President, any Senior Vice President, any Vice President, any Assistant Vice President, any Secretary, any Assistant Secretary, and the seal of the Company may be affixed by facsimile to any Power of Attorney or to any certificate relating thereto appointing Resident Vice Presidents, Resident Assistant Secretaries or Attorneys-in-Fact for purposes only of executing and attesting bonds and undertakings and other writings obligatory in the nature thereof, and any such Power of Attorney or certificate bearing such facsimile signature or facsimile seal shall be valid and binding upon the Company and any such power so executed and certified by such facsimile signature and facsimile seal shall be valid and binding on the Company in the future with respect to any bond or understanding to which it is attached.

I, Kevin E. Hughes, the undersigned, Assistant Secretary of Travelers Casualty and Surety Company of America of Toyolers Casualty and Surety Company, and St. Paul Fire and Marine Insurance Company, do hereby certify that the above and foregoing is a true and forrect copy of the Power of Attorney executed by said Companies, which remains in full force and effect.

Dated this 19th

day of June







2019



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY) 1/16/2020

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Insurance Office of America, Inc.	CONTACT NAME: Kaylee Onnen				
854 Washington Street NW Suite 200	PHONE (A/C, No, Ext): 770-250-0213 FAX (A/C, No): 678-450-9180 E-MAIL ADDRESS: Kaylee.Onnen@ioausa.com				
Gainesville GA 30501	INSURER(S) AFFORDING COVERAGE	NAIC#			
	INSURER A: American Automobile Insurance Compa	any 21849			
INSURED CENTCOM-07	INSURER B: Endurance American Insurance Compa	ny 10641			
Centerline Communications, LLC 750 W. Center Street, Floor 3	INSURER C: Redwood Fire & Casualty Insurance Co	mpany 11673			
West Bridgewater MA 02379	INSURER D: Continental Divide Insurance Company	35939			
•	INSURER E: Navigators Insurance Company	42307			
	INSURER F: AGCS Marine Insurance Company	22837			

COVERAGES CERTIFICATE NUMBER: 668002971 **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMIT	s
Α	X COMMERCIAL GENERAL LIABILITY CLAIMS-MADE X OCCUR			MZG80999008	8/18/2019	8/18/2020	EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurrence)	\$ 1,000,000 \$ 1,000,000
							MED EXP (Any one person)	\$10,000
							PERSONAL & ADV INJURY	\$ 1,000,000
	GEN'L AGGREGATE LIMIT APPLIES PER:						GENERAL AGGREGATE	\$ 2,000,000
	X POLICY PRO- JECT LOC						PRODUCTS - COMP/OP AGG	\$ 2,000,000
	OTHER:							\$
A	AUTOMOBILE LIABILITY			MZG80999008	8/18/2019	8/18/2020	COMBINED SINGLE LIMIT (Ea accident)	\$1,000,000
^	X ANY AUTO			MZA07184489	8/18/2019	8/18/2020	BODILY INJURY (Per person)	\$
	OWNED SCHEDULED AUTOS ONLY						BODILY INJURY (Per accident)	\$
	X HIRED AUTOS ONLY X NON-OWNED AUTOS ONLY						PROPERTY DAMAGE (Per accident)	\$
								\$
A B	X UMBRELLA LIAB X OCCUR			CGU15442882 EXC30000750201	8/18/2019 8/18/2019	8/18/2020 8/18/2020	EACH OCCURRENCE	\$1,000,000
_	X EXCESS LIAB CLAIMS-MADE			EXC30000750201	0/10/2019	0/10/2020	AGGREGATE	\$1,000,000
	DED RETENTION\$						Each Occ/Agg	\$4,000,000
C	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY			CEWC035695 CEWC036294 - FL & OR	8/18/2019 8/18/2019	8/18/2020 8/18/2020	X PER OTH- STATUTE ER	
_	ANYPROPRIETOR/PARTNER/EXECUTIVE	N/A		CEWC030294 - FL & OR	6/16/2019	6/16/2020	E.L. EACH ACCIDENT	\$1,000,000
	(Mandatory in NH)	.,,,					E.L. DISEASE - EA EMPLOYEE	\$1,000,000
	If yes, describe under DESCRIPTION OF OPERATIONS below						E.L. DISEASE - POLICY LIMIT	\$1,000,000
HН	Excess Liability (\$5M x \$4M) Installation Floater Leased/Rented Equipment			IS19EXCZ027XAIV MZI93079248	8/18/2019 8/18/2019	8/18/2020 8/18/2020	Each Occ/Agg Limit Limit	\$5,000,000 \$1,000,000 \$500,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

General Liability: CG7158 01/14 Multicover; CG2001 04/13 Primary and Noncontributory - Other Insurance Condition; CG2037 04/13 Additional Insured -Owners, Lessees or Contractors – Completed Operations.

Auto Liability: CA7052 10/14 Fleetcover Endorsement - Pennsylvania; CA7106 04/14 Additional Insured – Primary and Non-Contributory with Other Insurance; CA7018 10/01 Fleetcover Endorsement; CA0449 11/16 Primary and Non-Contributory with Other Insurance.

Umbrella: 5400 10/03 Quick Reference The Fund Umbrella Workers Compensation: WC000313 04/84 Waiver of Our Right to Recover From Others Endorsement; WC990410C 01/19 Waiver of Our Right to Recover from

Others Endorsement - California Blanket Basis

Reference: Site: 10071565 / MA2246

CERTIFICATE HOLDER	CANCELLATION
	SHOULD ANY OF THE ABOVE DESCRIBED POL THE EXPIRATION DATE THEREOF, NOTIC

*** PROOF OF INSURANCE *** 750 W Center St Floor 3 West Bridgewater MA 02379

ICIES BE CANCELLED BEFORE E WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

ULS License

Wireless Communications Service License - KNLB200 - New Cingular Wireless PCS, LLC

M This license has pending applications: 0007815643

Call Sign KNLB200 Radio Service WS - Wireless Communications

Service

Status Active Auth Type Regular

Rural Service Provider Bidding Credit

Is the Applicant seeking a Rural Service Provider (RSP)

bidding credit?

Reserved Spectrum

Reserved Spectrum

Market

Market MEA001 - Boston Channel Block B

Submarket 0 Associated 002310.000000000-Frequencies 002315.00000000

(MHz) 002355.000000000-002360.00000000

Dates

Grant 09/27/2010 Expiration 07/21/2017

Effective 07/21/2017 Cancellation

Buildout Deadlines

1st 03/13/2017 2nd 09/13/2019

Notification Dates

1st 03/03/2017 2nd

Licensee

FRN 0003291192 Type Limited Liability Company

Licensee

 New Cingular Wireless PCS, LLC
 P:(855)699-7073

 208 S. Akard St., RM 1016
 F:(214)746-6410

 Dallas, TX 75202
 E:FCCMW@att.com

ATTN Leslie A. Wilson

Contact

AT&T Mobility LLC P:(202)457-2055 F:(202)457-3073

1120 20th Street, NW - Suite 1000 E:michael.p.goggin@att.com

Washington, DC 20036 ATTN Michael P. Goggin

Ownership and Qualifications

Radio Service Type Fixed, Mobile

8/6/2019

Regulatory Status Common Carrier, Non-Common Interconnected

Yes

Alien Ownership

The Applicant answered "No" to each of the Alien Ownership questions.

Basic Qualifications

The Applicant answered "No" to each of the Basic Qualification questions.

Tribal Land Bidding Credits

This license did not have tribal land bidding credits.

Carrier

Demographics

Race

Ethnicity Gender

ULS License

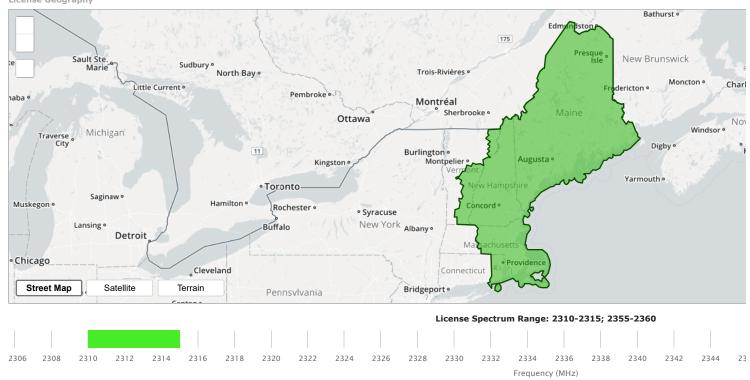
Wireless Communications Service License - KNLB200 - New Cingular Wireless PCS, LLC

Map

Call SignKNLB200Radio ServiceMarketMEA001 - BostonChannel BlockSubmarket0Associated Frequencies (MHz)

Auction 14 - WCS

License Geography



ULS License

PCS Broadband License - KNLF954 - AT&T Mobility Spectrum LLC

Call Sign

KNLF954

Radio Service

CW - PCS Broadband

Status

Active

Auth Type

Regular

Rural Service Provider Bidding Credit

Is the Applicant seeking a Rural Service Provider (RSP)

bidding credit?

Reserved Spectrum

Reserved Spectrum

Market

Market

BTA051 - Boston, MA

Channel Block

D

Submarket

Associated Frequencies

(MHz)

001865.000000000-001870.00000000 001945.00000000-

001950.00000000

Dates

Grant

06/29/2017

Expiration

06/27/2027

Effective

09/21/2018

Cancellation

Buildout Deadlines

1st

06/27/2002

2nd

Notification Dates

1st

04/01/1999

2nd

Licensee

FRN

0014980726

Type

Limited Liability Company

Licensee

AT&T Mobility Spectrum LLC 208 S. Akard St., RM 1015 Dallas, TX 75202

ATTN Cecil J Mathew

P:(855)699-7073

F:(214)746-6410 E:FCCMW@att.com

Contact

AT&T Mobility LLC Cecil J Mathew 208 S Akard St. RM 1015 Dallas, TX 75202 ATTN Michael P. Goggin

P:(855)699-7073 F:(214)746-6410 E:FCCMW@ATT.COM

Ownership and Qualifications

Radio Service Type

Mobile

Common Carrier

Interconnected

Yes

Regulatory Status **Alien Ownership**

The Applicant answered "No" to each of the Alien Ownership questions.

1/2

Basic Qualifications

The Applicant answered "No" to each of the Basic Qualification questions.

Tribal Land Bidding Credits

This license did not have tribal land bidding credits.

Demographics

Race

Ethnicity

Gender



June 5, 2019





Centerline Communications, LLC 750 West Center Street Suite #301 West Bridgewater, MA 02379

RE:

Structural Assessment

Site Name: Site Address:

Area6_28A 308 Lowell Street Andover, MA 01810

To Whom It May Concern:

Hudson Design Group LLC (HDG) has been authorized by AT&T to perform a structural assessment on the existing utility pole to determine its capability of supporting the AT&T equipment.

Based on our evaluation, we have determined that the existing utility pole #591/84 **IS CAPABLE** of supporting the proposed equipment installation. Reference the latest HDG drawings for the existing equipment location and connection details. Calculations submitted upon request.

This assessment was conducted in accordance with EIA/TIA-222-G, Structural Standards for Steel Antenna Towers and Antenna Supporting Structures, the National Electric Safety Code 2017 (NESC), the International Building Code 2015, the ASCE 7-10, and the Massachusetts State Building Code, 9th edition.

This determination was based on the following limitations and assumptions:

- 1. Equipment and locations should not deviate from the HDG drawings without written approval of the engineer.
- 2. HDG is not responsible for any modifications completed prior to and hereafter which HDG was not directly involved.
- 3. All structural members and their connections are assumed to be in good condition and are free from defects with no deterioration to its member capacities. Contractor to perform pre-inspection prior to construction.
- 4. All antennas, coax cables and waveguide cables are assumed to be properly installed and supported as per the manufacturer requirements.
- 5. HDG could not verify the existing wood pole burial depth. HDG is under the assumption that the burial depth meets the minimum requirements per the North American Wood Pole Coalition Technical Bulletin – The Wood Pole 2005: Design Considerations, Service Benefits, and Economical Reward.
- 6. HDG did not perform any geotechnical analysis / or / investigation. Soil Information is unknown.

Please feel free to contact our office should you have any questions.

Respectfully Submitted, Hudson Design Group LLC

fulue a

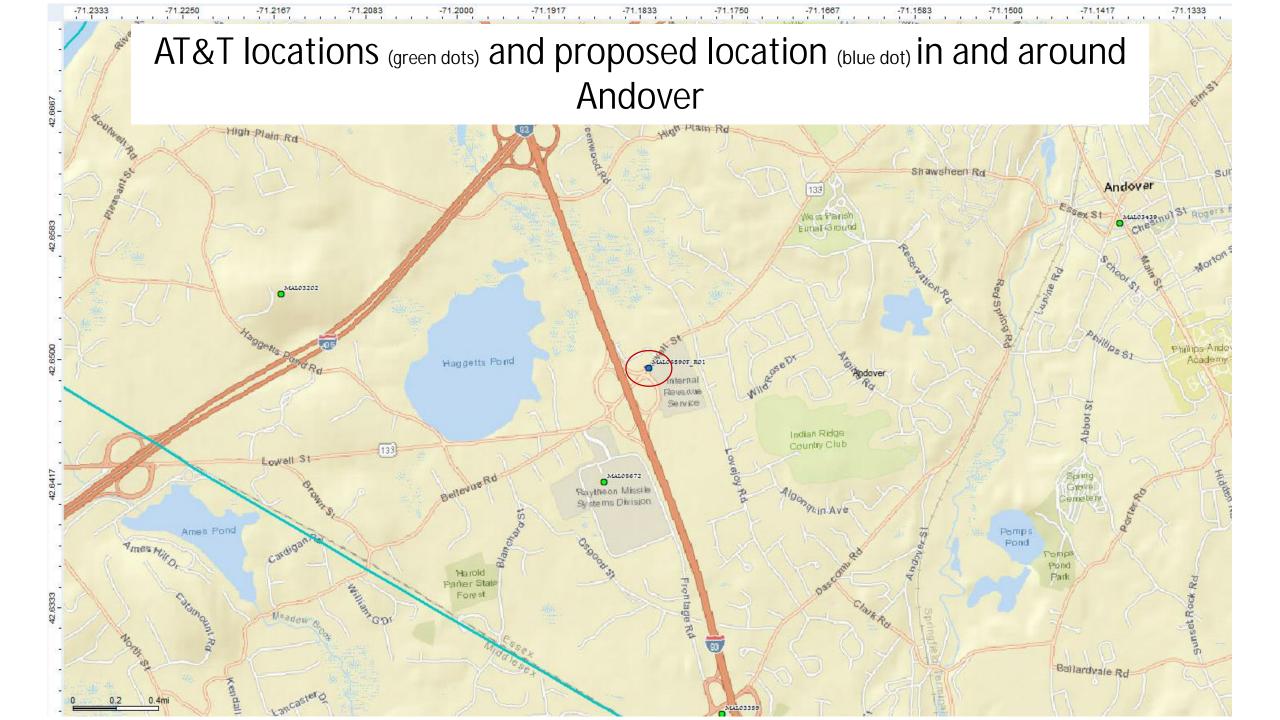
Michael Cabral Structural Dept. Head Daniel P. Hamm, PE Principal

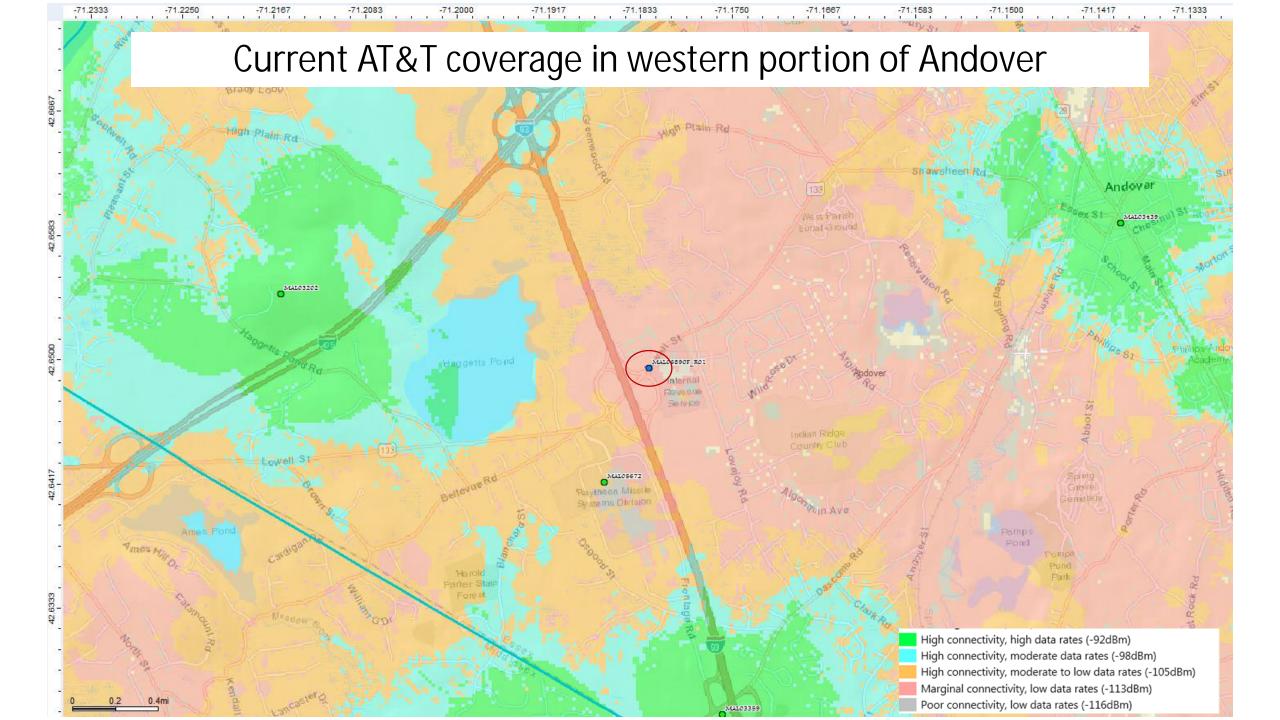
HAMM

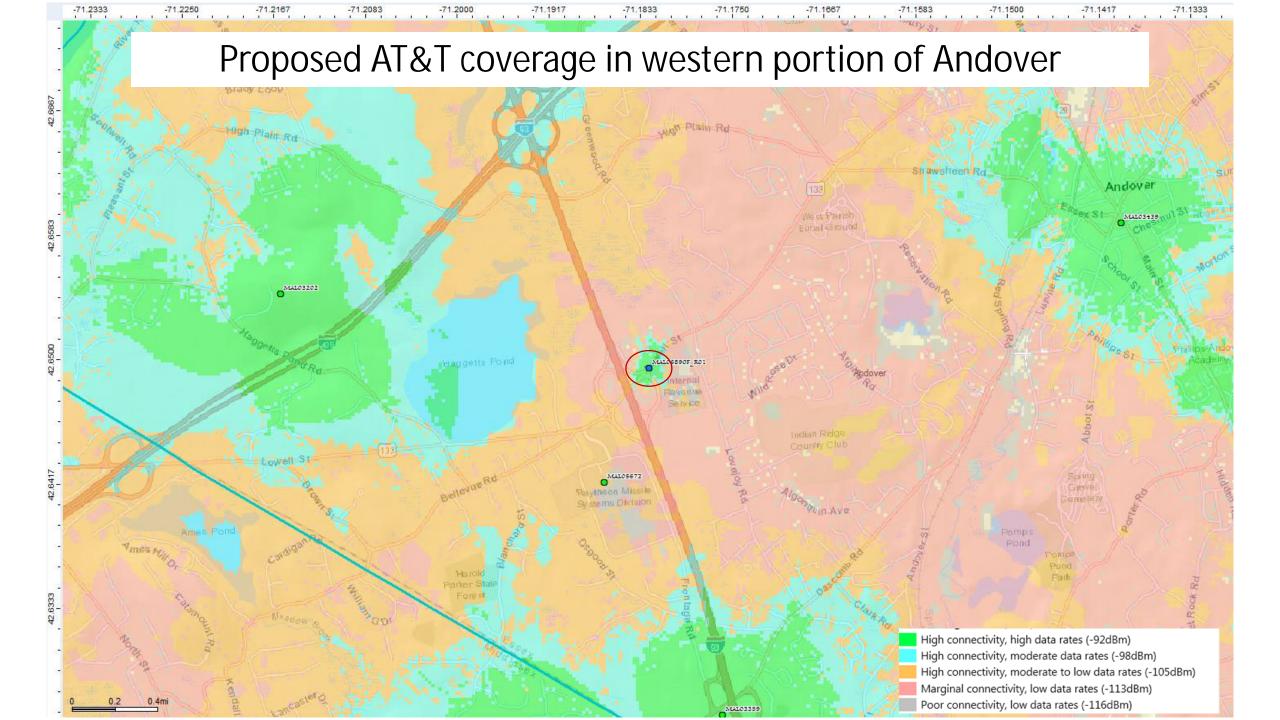
CIVIL

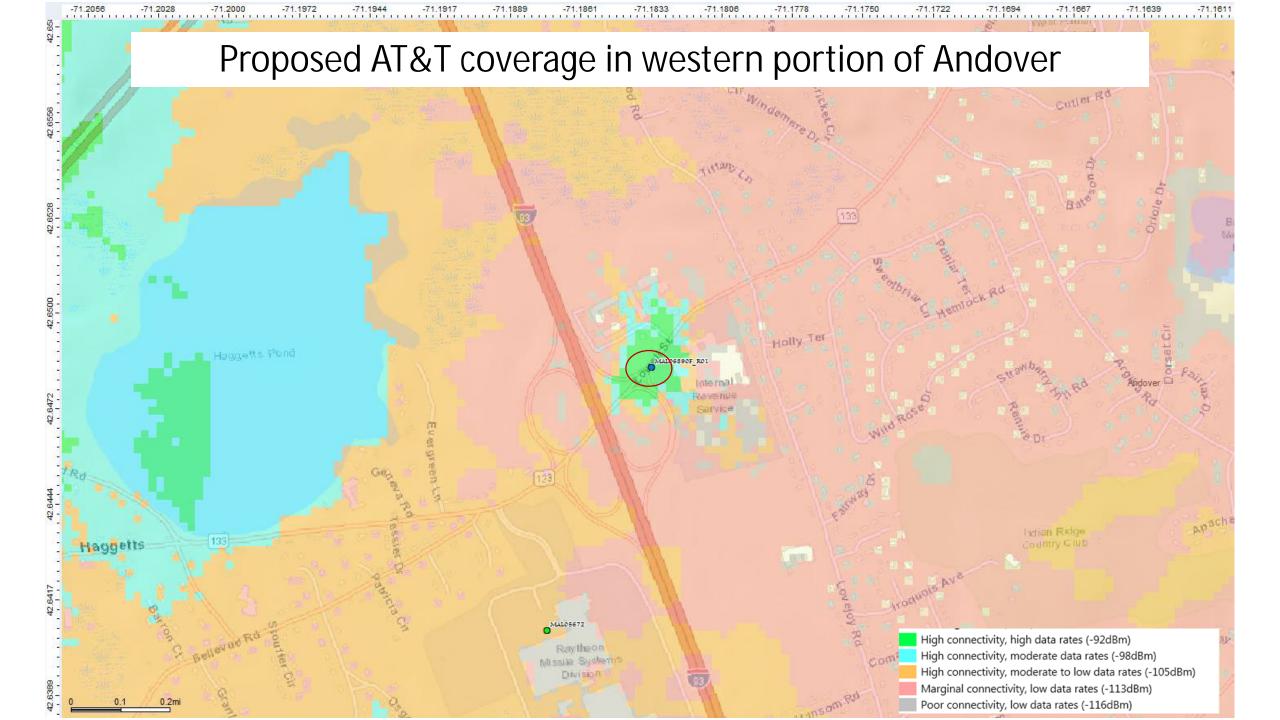
Area6_28: Location Selection Description and Reasoning

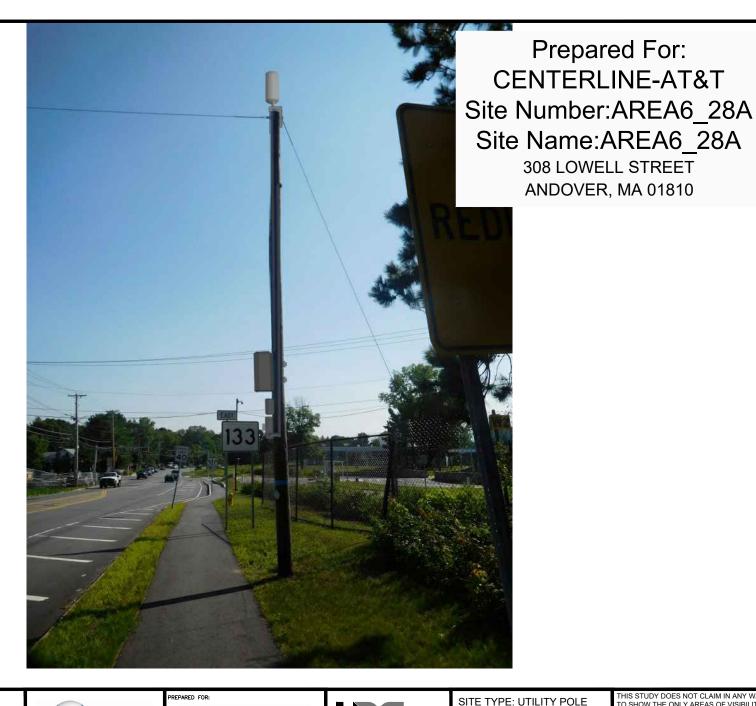
Proposed location is located just past the end of the 93 north off ramp. There are no residential structures directly abutting or within view from the target pole. Proposed location is to provide coverage and capacity to a heavy traffic area. Target pole is the only allowed use pole that will meet AT&T's coverage objective.











SITE NO: AREA6_28A
SITE NAME: AREA6_28A

ADDRESS: 308 LOWELL STREET ANDOVER, MA 01810



FRAMINGHAM, MA 01701





DATE: 06/06/2019 | REV: 0

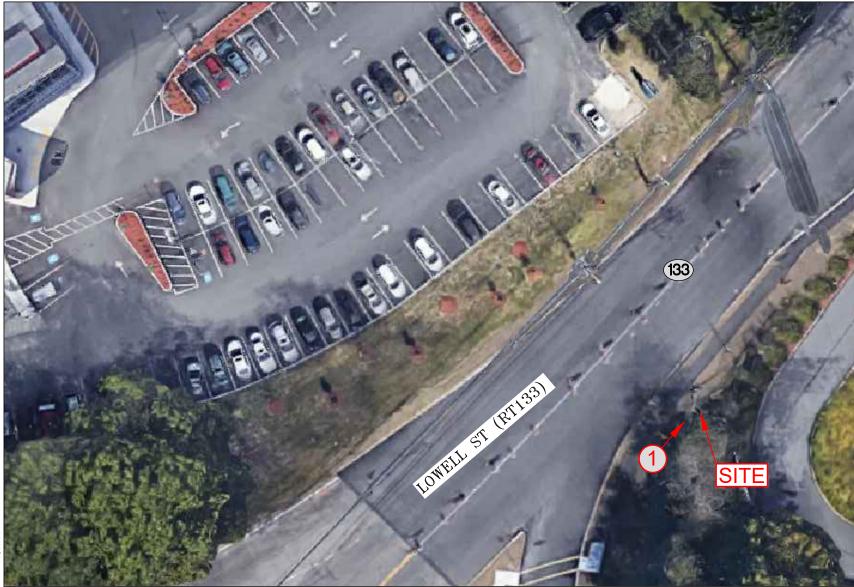
SCALE: N.T.S.

THIS STUDY DOES NOT CLAIM IN ANY WAY TO SHOW THE ONLY AREAS OF VISIBILITY. IT IS MEANT TO SHOW A BROAD REPRESENTATION OF AREAS WHERE THE PROPOSED INSTALLATION MAY BE VISIBLE BASED UPON THE BEST INFORMATION FOR TOPOGRAPHY AND VEGETATION LOCATIONS AVAILABLE TO DATE.

PAGE 1 OF 4

LOCUS MAP

TAKEN FROM GOOGLE.COM ON 06-06-19



SITE NO: AREA6_28A SITE NAME: AREA6_28A

ADDRESS: 308 LOWELL STREET ANDOVER, MA 01810



550 COCHITUATE ROAD

FRAMINGHAM, MA 01701





LEGEND:

SITE TYPE: UTILITY POLE DATE: 06/06/2019 REV: 0

DIRECTION OF VIEW

DRAWN BY: KAM

TO SHOW THE ONLY AREAS OF VISIBILITY REPRESENTATION OF AREAS WHERE THE PROPOSED INSTALLATION MAY BE VISIBLE BASED UPON THE BEST INFORMATION FOR TOPOGRAPHY AND VEGETATION LOCATIONS AVAILABLE TO DATE.

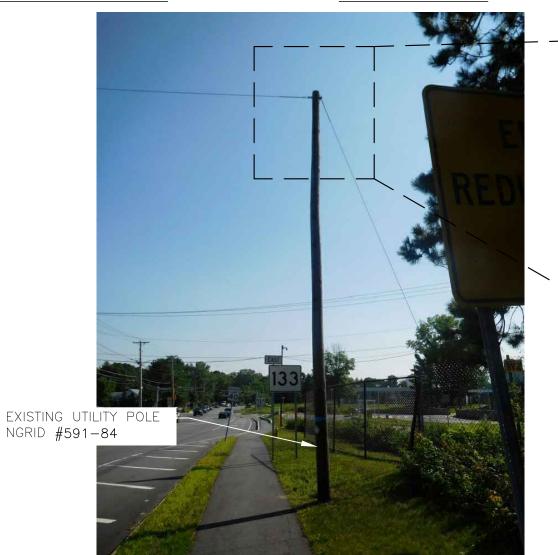
PHOTO LOCATION

PAGE 2 OF 4

EXISTING CONDITIONS

LOCATION #1

DATE OF PHOTO: 07/20/2017





DETAIL OF EQUIPMENT

VIEW NORTHEAST FROM LOWELL ST

SITE NO: AREA6_28A SITE NAME: AREA6_28A

ADDRESS: 308 LOWELL STREET ANDOVER, MA 01810



550 COCHITUATE ROAD

FRAMINGHAM, MA 01701

CENTERLINE 95 RYAN DRIVE RAYNHAM, MA 02767



SITE TYPE: UTILITY POLE DATE: 06/06/2019 REV: 0 DRAWN BY: KAM

BASED UPON THE BEST INFORMATION FOR TOPOGRAPHY AND VEGETATION LOCATIONS AVAILABLE TO DATE. SCALE: N.T.S.

PAGE 3 OF 4

TO SHOW THE ONLY AREAS OF VISIBILITY

REPRESENTATION OF AREAS WHERE THE

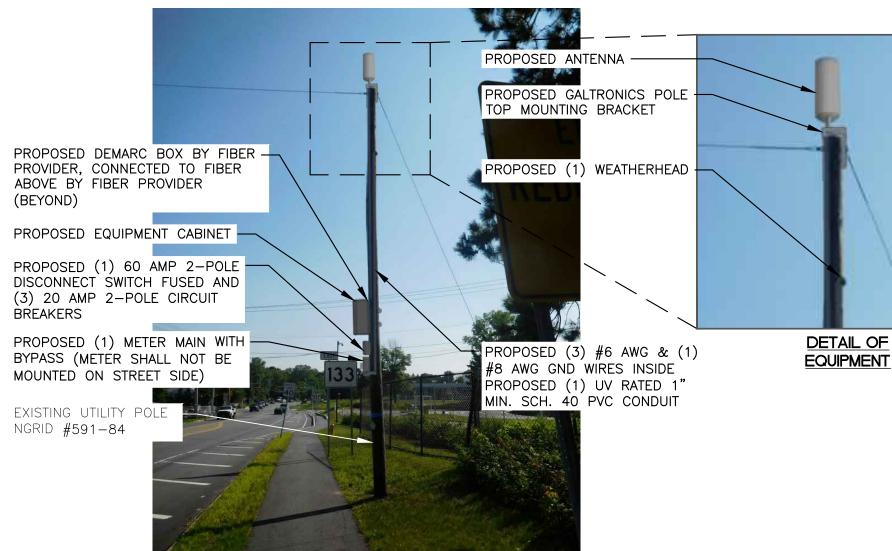
PROPOSED INSTALLATION MAY BE VISIBLE

IT IS MEANT TO SHOW A BROAD

PROPOSED CONDITIONS

LOCATION # 1

DATE OF PHOTO: 07/20/2017



VIEW NORTHEAST FROM LOWELL ST

SITE NO: AREA6 28A SITE NAME: AREA6_28A

ADDRESS: 308 LOWELL STREET ANDOVER, MA 01810



550 COCHITUATE ROAD

FRAMINGHAM, MA 01701



HUDSON **Design Group LLC**

SITE TYPE: UTILITY POLE DATE: 06/06/2019 DRAWN BY: KAM

SCALE: N.T.S.

TO SHOW THE ONLY AREAS OF VISIBILITY IT IS MEANT TO SHOW A BROAD REPRESENTATION OF AREAS WHERE THE PROPOSED INSTALLATION MAY BE VISIBLE BASED UPON THE BEST INFORMATION FOR TOPOGRAPHY AND VEGETATION LOCATIONS AVAILABLE TO DATE.

REV: 0

PAGE 4 OF

brownrudnick

Edward D. Pare, Jr., Esq. direct dial: 401-276-2639 epare@brownrudnick.com

December 9, 2019

Town of Andover Board of Selectmen c/o Andrew P. Flanagan Office of the Town Manager 36 Bartlet Street Andover, MA 01810

Re: Application for Small Cell Wireless Installation on Existing Utility Pole Near 308 Lowell Street, Andover, Massachusetts - Supplemental Information Based on Interdepartmental Review Meeting

Dear Members of the Andover Board of Selectmen:

As you may recall, we represent New Cingular Wireless PCS, LLC ("AT&T") with respect to the above referenced small cell facility application. On October 15, 2019, we participated in an Interdepartmental Review meeting and presented AT&T's small cell facility project to those departmental officials in attendance. At the meeting, certain town officials requested additional information which we provide as follows:

- 1. We note that the existing utility pole upon which AT&T intends to attach its small cell facility is located in a right-of-way controlled by the Massachusetts Department of Transportation ("MassDOT"). AT&T submitted an application to MassDOT and recently obtained MassDOT's approval, a copy of which is attached. As you may know, MassDOT also requires approval from the Town of Andover.
- 2. Fire Chief Michael Mansfield requested that AT&T's radio frequency engineer contact him to discuss AT&T's small cell facility and any potential impact on Andover's emergency communications. Based on our recent discussions with Chief Mansfield, we understand that his concerns and questions have been satisfactorily addressed by AT&T.
- 3. The Engineering Division of the Andover Department of Public Works requested that the power and fiber paths to the small cell facility be included on AT&T's drawings. AT&T consulted with these utility providers and attached are revised drawings showing the paths for the power and fiber; both utilities will be provided overhead. Please substitute the enclosed updated drawings for the drawings submitted with the original application

We believe we have addressed the outstanding issues based on the comments at the above-referenced Interdepartmental Review meeting and we are ready to proceed with the public hearing before the Andover Board of Selectmen.



Town of Andover December 9, 2019 Page 2

If you have any questions, please don't hesitate to contact us. We look forward to presenting this application at the next available meeting of the Andover Board of Selectmen.

Sincerely,

BROWN RUDNICK LLP

Edward D. Pare, Jr., Esq. (Jad)

63478543 v3-WorkSiteUS-024519/1096





4-2019-0537

ANDOVER Small Cell Wireless - Install on Existing Pole or Structure

Subject to all the terms, conditions, and restrictions printed or written below, permission is hereby granted to NEW CINGULAR WIRELESS PCS, LLC (AT&T) to enter upon the State Highway known as ROUTE 133 or LOWELL STREET @ ROUTE 93 OFF-RAMP for the purpose of installing a wireless antenna, a remote radio head and associated appurtenances to existing utility pole #591-84 located within the shoulder area on the southerly side of the roadway at approximate station 129+57. All work will be performed as per plans and documents submitted and on file at the MassDOT Highway Division District Four Permits Office.

A copy of this permit must be on the job site at all times for inspection. Failure to have this permit available will result in suspension of the rights granted by this permit until such permit is made available.

No equipment, trucks, workers, etc., shall occupy any part of the traveled way except between the hours of 9:00 A.M. and 3:00 P.M. Monday thru Friday. Except for an emergency, in no case will operations exceed the specified hours without the prior approval of the District Highway Director or an authorized Representative. This includes the placement of traffic control devices, vehicles, equipment or anything that restricts the flow of traffic through the construction zone. Emergencies must be unexpected situations or sudden occurrences of a serious and urgent nature that demand immediate attention.

No work shall be done under the terms of this permit on Saturdays, Sundays or Holidays.

No work will be performed on the day before or the day after a holiday or a long weekend which involves a holiday on any highway, roadway or property under the control of the MassDOT Highway Division or in areas where the work would adversely impact the normal flow of traffic on the State Highway System, without permission of the District Highway Director or an authorized Representative.

The Grantee shall not engage in any work under benefit of this Permit until a MassDOT Roadway Work Notification Form (attached) is filed with the District Permit Office prior to the start of work. The form must contain the required information and have the proper signatory approval. The form must be submitted no later than 12:00 PM on the Wednesday prior to the week the work will begin. The duration of work approvals shall be limited to one week at a time. If the work exceeds one week then a new Roadway Work Notification Form is required to be submitted for each additional week. The Grantee can fax the completed form to MassDOT at 781.646.5115.

No trees shall be cut or removed under this permit.

Provisions shall be made for the safety and protection of Pedestrian Traffic during the construction period.

It shall be the responsibility of the Grantee to provide access to the property of residents and business owners during the progress of the proposed work.

All above-ground structures installed under this permit shall be properly secured and protected so that they shall not be a hazard to or be damaged by the general public.

Any changes to the construction or traffic management plans impacting State Highway or traffic operations must be submitted for approval prior to implementation.

If it becomes necessary to relocate the existing work area to a location other than specified in this permit then the Grantee shall apply for an additional permit to cover this project.

The Completion of Work Form shall be sent to the Grantor as soon as possible after the completion of the physical work.

WORK HOURS: 9:00 A.M. thru 3:00 P.M. Monday thru Friday.

The Grantee shall contact the Area Contact Person (7:30 AM to 4:00 PM Monday through Friday ONLY) at 617.279.7203, two (2) working days prior to the start of work.

All work shall be in compliance with the 1988 Edition of the "Massachusetts Highway Department Standard Specifications for Highways and Bridges", and Supplemental Specifications Dated July 1, 2015.

The Contractor is responsible to ensure that all contractor personnel, including all subcontractors, working on the project are issued and are wearing all necessary personal protective safety equipment while working within the project limits. This equipment shall include, as a minimum, a hardhat and a safety vest, regardless of the type of work being performed. Other safety equipment shall be added as required to perform the work in which they are engaged and in accordance with all local, state and federal requirements in effect.

Uniformed Police Officers with their official vehicles shall be in attendance at all times while work is being done under this permit.

The furnishing and erecting of all required signs and traffic safety devices shall be the responsibility of the Grantee.

All signs and devices shall conform to the 2009 edition of the Manual on Uniform Traffic Control Devices (MUTCD) with the Commonwealth of Massachusetts Amendments. Sign both sides of multi-lane approach. Signs denoting "END HIGHER FINES" (or similar legend) must be provided at the downstream end of the work zone or other area where the increased fines are in effect.

Cones and non-reflecting warning devices shall not be left in operating position on the highway when the daytime operations have ceased. If it becomes necessary for this Department to remove any construction warning devices or their appurtenances from the project due to negligence by the Grantee all costs for this work will be charged to the Grantee.

Flashing arrow boards will be used at all times when operations occupy the roadway and shall be available for use at all times.

All warning devices shall be subject to removal, replacement and repositioning by the Grantee as often as deemed necessary by the Engineer.

When in the opinion of the Engineer, this operation constitutes a hazard to traffic in any area, the Grantee may be required to suspend operations during certain hours and to remove his equipment from the roadway.

It is imperative that construction operations are managed so that motorists travel "delay" is minimized. At any time during the operation when a traffic delay of over twelve (12) minutes occurs and the situation is worsening, the Grantee will begin to suspend operations. Continuously increasing "delays" of over twelve (12) minutes are not to be permitted and may result in the termination of this Permit by the Department.

The Grantee will be responsible for any damage caused by this operation to curbing, structures, roadway, etc.

The Grantee shall be responsible for any settlement which may occur as a result of the work done under this permit.

The Grantee shall be responsible for any ponding of water which may develop within the State Highway Layout, caused by this work.

In the event of inclement weather (snow, ice, dense fog etc.), which lessens the visibility of advanced warning signs, vehicles and workers, the Grantee will suspend all operations. In the event of snow or icing conditions, all vehicles and equipment must be removed from the roadway and/or shoulder area so as not to interfere with snow and ice operations.

No work shall be authorized during snow, sleet, or ice storms and subsequent snow and ice operations.

The State Highway Layout shall be kept clean of debris of any nature at all times and shall be thoroughly cleaned at the completion of this permit.

At the completion of this permit, all disturbed areas shall be restored to a condition equal or better to that which existed prior to the work.

Any grass areas disturbed within the State Highway Layout shall be graded, loamed to a depth of 4" and seeded.

If the sidewalk area is disturbed, it shall be restored, full width, in kind a minimum of five feet beyond any disturbed area.

If the existing guardrail is removed or damaged it shall be reset or replaced to Massachusetts Highway Standards. This work shall be performed by an approved contractor.

If the existing sideline fence is removed or damaged it shall be reset or replaced to Massachusetts Highway Standards.

Any bound marked MHB shall not be removed or disturbed. If it becomes necessary to remove and reset any highway bounds then the Grantee shall hire a Registered Professional Land Surveyor to perform this work. It shall be the

responsibility of this land surveyor to submit to this office a statement in writing and a plan containing his stamp and signature showing that said work has been performed.

This permit is issued with the stipulation that it may be modified or revoked at any time at the discretion of the District Four Highway Director or an authorized Representative without rendering said Department or the Commonwealth of Massachusetts liable in any way.

The Grantee shall indemnify and save harmless the Commonwealth and its Highway Department against all suits, claims or liability of every name and nature arising at any time out of or in consequence of the acts of the Grantee in the performance of the work covered by this permit and or failure to comply with terms and conditions of the permit whether by themselves or their employees or subcontractors.

APPLICANT'S REPRESENTATIVE: Craig Cody

TELEPHONE NUMBER: (781) 831-1281

The Permit shall be void unless the work herein contemplated shall have been completed before November 26, 2020.

Dated at Arlington this 26th day of November, 2019.

Approved Signature

Paul D. Stedman

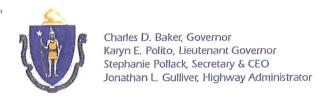
District Highway Director

LFR/lfr



MASSACHUSETTS Roadway Work Notification Form Page: 1 of 1

Start Date: ____ Start Time: ___ End Date: ____ End Time: Construction: No. Maintenance Crew Bridge Inspection Other: Permit Project: No. District: City/Town: O Roadway: _____ Direction: NB EB SB WB OTHER Bridge No.: (Roadway, Waterway, Railroad, Other) (Roadway) Ramp Closures: Exit # ____ From, ______(Roadway & Direction) То, ____ (Roadway & Direction) Brief Description of Work: (Attach second sheet for multiple lane closures or additional information) S = Shoulder L = Travel Lane M = Median O = Open X = Closed Radio ID: Contact Person: Cell Phone: Office Phone: Recommended: Approved: Date:





Completion of Work

You may proceed with the work described within this Permit, which has been issued to you by the Massachusetts Department of Transportation (MassDOT).

Your attention is called to the time frame allowed for completion of said work. If an extension of time is required or an alteration to any of the permit conditions becomes necessary, application for such changes should be made as soon as possible to the District Highway Director.

Upon completion of the work, please fill out this form and forward it to: Massachusetts Department of Transportation, District Four, 519 Appleton Street, Arlington, MA 02476.

IF THIS NOTICE IS NOT RETURNED, THE LIABILITY ASSUMED UNDER THIS PERMIT WILL CONTINUE.

By Authority of the Massachusetts Department of Transportation District Four Highway Director.

I hereby notify you that the work outlined and a	authorized under the terms and conditions of
MassDOT Permit No.	_ has been completed in accordance with all
requirements of MassDOT. The date of completion	n:
Permit Grantee:	
Signed:	
City/ Town:	
Date:	



AT&T SITE ID: AREA6_28A 308 LOWELL STREET ANDOVER, MA 01810



GENERAL NOTES

- 1. THIS DOCUMENT IS THE CREATION, DESIGN, PROPERTY AND COPYRIGHTED WORK OF AT&T. ANY DUPLICATION OR USE WITHOUT EXPRESS WRITTEN CONSENT IS STRICTLY PROHIBITED. DUPLICATION AND USE BY GOVERNMENT AGENCIES FOR THE PURPOSES OF CONDUCTING THEIR LAWFULLY AUTHORIZED REGULATORY AND ADMINISTRATIVE FUNCTIONS IS SPECIFICALLY ALLOWED.
- THE FACILITY IS AN UNMANNED PRIVATE AND SECURED EQUIPMENT INSTALLATION. IT IS ONLY
 ACCESSED BY TRAINED TECHNICIANS FOR PERIODIC ROUTINE MAINTENANCE AND THEREFORE
 DOES NOT REQUIRE ANY WATER OR SANITARY SEWER SERVICE. THE FACILITY IS NOT
 GOVERNED BY REGULATIONS REQUIRING PUBLIC ACCESS PER ADA REQUIREMENTS.
- 3. CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE AT&T MOBILITY REPRESENTATIVE IN WRITING OF DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.
- CONSTRUCTION DRAWINGS ARE VALID FOR SIX MONTHS AFTER ENGINEER OF RECORD'S STAMPED AND SIGNED SUBMITTAL DATE LISTED HEREIN.

DO NOT SCALE DRAWINGS

CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE PROJECT OWNER'S REPRESENTATIVE IN WRITING OF DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

PROJECT SUMMARY

DESCRIPTION

TITLE SHEET

KEY PLAN AND ELEVATION

ELECTRICAL & GROUNDING DETAILS

FIBER PATH ROUTING (DESIGN BY OTHERS)

IMPROVING CELLULAR AND WIRELESS INTERNET SERVICE.

ONE TRIP PER MONTH AT ONE HOUR PER VISIT.

EQUIPMENT DETAILS

GN-1 GENERAL NOTES

SITE ADDRESS:

308 LOWELL STREET

SHEET INDEX

PROJECT DESCRIPTION

INSTALLATION OF ANTENNA AND ASSOCIATED EQUIPMENT ON EXISTING UTILITY

THIS IS AN UNMANNED AND RESTRICTED ACCESS EQUIPMENT SITE AND WILL BE USED FOR THE TRANSMISSION OF RADIO SIGNALS FOR THE PURPOSE OF

AT&T MAINTENANCE CREW (TYPICALLY ONE PERSON) WILL MAKE AN AVERAGE OF

REV.

COUNTY:

ESSEX

LATITUDE: LONGITUDE: 42.647652° N 71.183969° W

POLE OWNER:

NATIONAL GRID #591-84

POLE NUMBER
STRUCTURE TYPE:

UTILITY POLE

ARCHITECT/ENGINEER:

HUDSON DESIGN GROUP LLC 45 BEECHWOOD DRIVE NORTH ANDOVER, MA 01845

DRIVING DIRECTIONS

HEAD NORTHEAST TOWARD LEGGATT McCALL CONN. TURN LEFT ONTO LEGGATT McCALL CONN. CONTINUE ONTO BLURR ST. TURN LEFT ONTO COCHITUATE RD. TAKE RAMP TO I-90 E/MASSPIKE W/SPRINGFIELD/BOSTON. KEEP RIGHT AT THE FORK, FOLLOW SIGNS FOR I-90 E/INTERSTATE 95/MASSPIKE/BOSTON AND MERGE ONTO I-90 E/ MASSPIKE (SIGN FOR 90 E/I-95/BOSTON) TAKE EXIT 14 TOWARD N.H.-MAINE/I-95/MA-128/S SHORE. KEEP LEFT AT THE FORK, FOLLOW SIGNS FOR I-95 N AND MERGE ONTO I-95 N/MA-128 N. TAKE EXIT 37B TO MERGE ONTO I-93 N TOWARD CONCORD N.H. TAKE EXIT 43 TOWARD MA-133/ANDOVER/N TEWKSBURY. KEEP RIGHT AT THE FORK, FOLLOW SIGNS FOR ROUTE 133 E. AND MERGE ONTO 133 E. MERGE ONTO

CALL 811



WWW.DIGSAFE.COM

72 HOURS PRIOR UNDERGROUND SERVICE ALERT



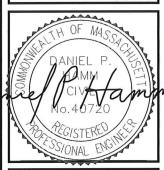


750 WEST CENTER STREET
SUITE #301
WEST BRIDGEWATER, MA 02379



45 BEECHWOOD DRIVE

EL: (978) 557-5553



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CLUSTER AND NODE NUMBER
AREA6_28A

SITE ID: AREA6_28A

SITE ADDRESS: 308 LOWELL STREET ANDOVER, MA 01810 ESSEX COUNTY

SHEET TITLE

TITLE SHEET

SHEET NO

T-1

GENERAL NOTES

 FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY:

CONTRACTOR - CENTERLINE SUBCONTRACTOR - GENERAL CONTRACTOR (CONSTRUCTION) OWNER - AT&T MOBILITY

- PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING SUBCONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF CONTRACTOR.
- 3. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. SUBCONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
- 4. DRAWINGS PROVIDED HERE ARE NOT TO BE SCALED AND ARE INTENDED TO SHOW OUTLINE ONLY.
- UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
- "KITTING LIST" SUPPLIED WITH THE BID PACKAGE IDENTIFIES ITEMS THAT WILL BE SUPPLIED BY CONTRACTOR. ITEMS NOT INCLUDED IN THE BILL OF MATERIALS AND KITTING LIST SHALL BE SUPPLIED BY THE SUBCONTRACTOR.
- 7. THE SUBCONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
- 8. IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE SUBCONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION SPACE FOR APPROVAL BY THE CONTRACTOR.
- 9. SUBCONTRACTOR SHALL DETERMINE ACTUAL ROUTING OF CONDUIT, POWER AND T1 CABLES, GROUNDING CABLES AS SHOWN ON THE POWER, GROUNDING AND TELCO PLAN DRAWING. SUBCONTRACTOR SHALL UTILIZE EXISTING TRAYS AND/OR SHALL ADD NEW TRAYS AS NECESSARY. SUBCONTRACTOR SHALL CONFIRM THE ACTUAL ROUTING WITH THE CONTRACTOR
- 10. THE SUBCONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT SUBCONTRACTOR'S EXPENSE TO THE SATISFACTION OF OWNER.
- 11. SUBCONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION.
- 12. SUBCONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION.
- 13. ALL CONCRETE REPAIR WORK SHALL BE DONE IN ACCORDANCE WITH AMERICAN CONCRETE INSTITUTE (ACI) 301.
- 14. ANY NEW CONCRETE NEEDED FOR THE CONSTRUCTION SHALL BE AIR—ENTRAINED AND SHALL HAVE 4000 PSI STRENGTH AT 28 DAYS. ALL CONCRETE WORK SHALL BE DONE IN ACCORDANCE WITH ACI 318 CODE REQUIREMENTS.
- 15. ALL STRUCTURAL STEEL WORK SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH AISC SPECIFICATIONS. ALL STRUCTURAL STEEL SHALL BE ASTM A36 (Fy = 36 ksi) UNLESS OTHERWISE NOTED. PIPES SHALL BE ASTM A53 TYPE E
- (Fy = 36 ksi). ALL STEEL EXPOSED TO WEATHER SHALL BE HOT DIPPED GALVANIZED.
- TOUCHUP ALL SCRATCHES AND OTHER MARKS IN THE FIELD AFTER STEEL IS ERECTED USING A COMPATIBLE ZINC RICH PAINT.
- 16. CONSTRUCTION SHALL COMPLY WITH SPECIFICATIONS AND "GENERAL CONSTRUCTION SERVICES FOR CONSTRUCTION OF AT&T SITES."
- 17. SUBCONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS MUST BE VERIFIED. SUBCONTRACTOR SHALL NOTIFY THE CONTRACTOR OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.

18. APPLICABLE BUILDING CODES:

SUBCONTRACTOR'S WORK SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ) FOR THE LOCATION. THE EDITION OF THE AHJ ADOPTED CODES AND STANDARDS IN EFFECT ON THE DATE OF CONTRACT AWARD SHALL GOVERN THE DESIGN.

BUILDING CODE: MA STATE BUILDING CODE 780 CMR 9TH EDITION & IBC 2015 ELECTRICAL CODE: 2017 NATIONAL ELECTRICAL CODE (NFPA 70-2017)

SUBCONTRACTOR'S WORK SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING STANDARDS:

AMERICAN CONCRETE INSTITUTE (ACI) 318; BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE:

AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC)

MANUAL OF STEEL CONSTRUCTION, ASD, FOURTEENTH EDITION:

TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA) 222-H, STRUCTURAL STANDARDS FOR ANTENNA SUPPORTING STRUCTURES AND ANTENNAS.

FOR ANY CONFLICTS BETWEEN SECTIONS OF LISTED CODES AND STANDARDS REGARDING MATERIAL, METHODS OF CONSTRUCTION, OR OTHER REQUIREMENTS, THE MOST RESTRICTIVE REQUIREMENT SHALL GOVERN. WHERE THERE IS CONFLICT BETWEEN A GENERAL REQUIREMENT AND A SPECIFIC REQUIREMENT, THE SPECIFIC REQUIREMENT SHALL GOVERN.

GROUNDING NOTES

- 1. THE SUBCONTRACTOR SHALL REVIEW AND INSPECT THE EXISTING FACILITY GROUNDING SYSTEM AND LIGHTNING PROTECTION SYSTEM (AS DESIGNED AND INSTALLED) FOR STRICT COMPLIANCE WITH THE NEC (AS ADOPTED BY THE AHJ), THE SITE—SPECIFIC (UL, LPI, OR NFPA) LIGHTING PROTECTION CODE, AND GENERAL COMPLIANCE WITH ERICSSON AND TIA GROUNDING STANDARDS. THE SUBCONTRACTOR SHALL REPORT ANY VIOLATIONS OR ADVERSE FINDINGS TO THE CONTRACTOR FOR RESOLUTION.
- ALL GROUND ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION, AND AC POWER GES'S) SHALL BE BONDED TOGETHER, AT OR BELOW GRADE, BY TWO OR MORE COPPER BONDING CONDUCTORS IN ACCORDANCE WITH THE NEC.
- 3. THE SUBCONTRACTOR SHALL PERFORM IEEE FALL—OF—POTENTIAL RESISTANCE TO EARTH TESTING (PER IEEE 1100 AND 81 STANDARDS) FOR NEW GROUND ELECTRODE SYSTEMS. THE SUBCONTRACTOR SHALL FURNISH AND INSTALL SUPPLEMENTAL GROUND ELECTRODES AS NEEDED TO ACHIEVE A TEST RESULT OF 5 OHMS OR LESS
- 4. METAL RACEWAY SHALL NOT BE USED AS THE NEC REQUIRED EQUIPMENT GROUND CONDUCTOR. STRANDED COPPER CONDUCTORS WITH GREEN INSULATION, SIZED IN ACCORDANCE WITH THE NEC, SHALL BE FURNISHED AND INSTALLED WITH THE POWER CIRCUITS TO BTS EQUIPMENT.
- EACH BTS CABINET FRAME SHALL BE DIRECTLY CONNECTED TO THE MASTER GROUND BAR WITH GREEN INSULATED SUPPLEMENTAL EQUIPMENT GROUND WIRES, #6 AWG STRANDED COPPER OR LARGER FOR INDOOR BTS AND #2 AWG STRANDED COPPER FOR OUTDOOR BTS.
- 6. EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.
- 7. APPROVED ANTIOXIDANT COATINGS (I.E., CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.
- B. ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED OR BOLTED TO GROUND BAR.
- ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CONNECTIONS.
- 10. MISCELLANEOUS ELECTRICAL AND NON-ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE WITH THE NEC.
- 11. METAL CONDUIT SHALL BE MADE ELECTRICALLY CONTINUOUS WITH LISTED BONDING FITTINGS OR BY BONDING ACROSS THE DISCONTINUITY WITH #6 AWG COPPER WIRE UL APPROVED GROUNDING TYPE CONDUIT CLAMPS.
- 12. ALL NEW STRUCTURES WITH A FOUNDATION AND/OR FOOTING HAVING 20 FT. OR MORE OF 1/2 IN. OR GREATER ELECTRICALLY CONDUCTIVE REINFORCING STEEL MUST HAVE IT BONDED TO THE GROUND RING USING AN EXOTHERMIC WELD CONNECTION USING #2 AWG SOLID BARE TINNED COPPER GROUND WIRE, PER NFC 250.50

at&t
550 COCHITUATE ROAD FRAMINGHAM, MA 01701



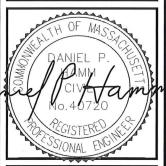
750 WEST CENTER STREET
SUITE #301
WEST BRIDGEWATER, MA 02379



45 BEECHWOOD DRIVE N. ANDOVER, MA 01845 TEL: (978) 557-5553 FAX: (978) 336-5586

AT

DPH



CHECKED BY:

APPROVED BY:

SUBMITTALS				
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CLUSTER AND NODE NUMBER: AREA6_28A

SITE ID: AREA6_28A

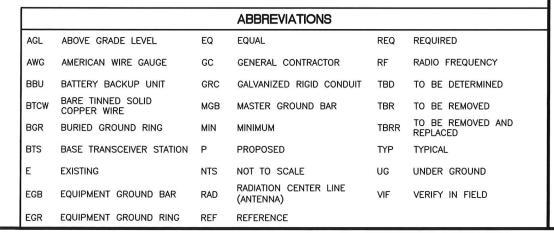
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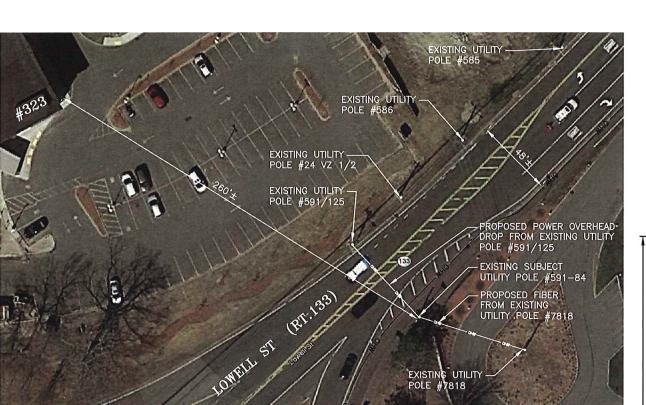
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GENERAL NOTES

SHEET NUMBER

GN-1





EXISTING SECONDARY -EXISTING UTILITY POLE #591-84

KEY PLAN

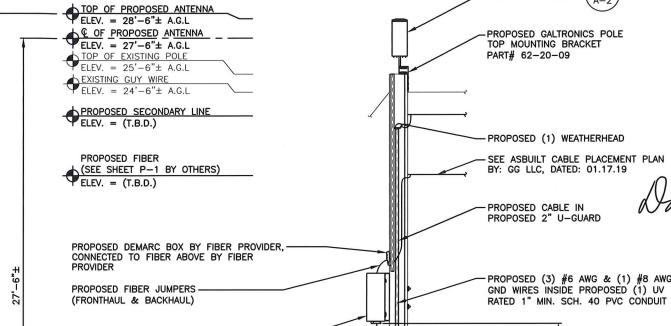
22x34 SCALE: 1"=30'

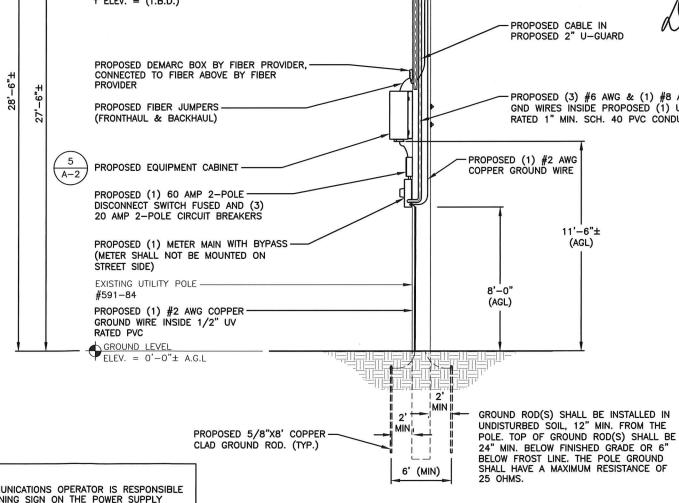
11x17 SCALE: 1"=60'

EXISTING CONDITIONS PHOTO DETAIL

SCALE: N.T.S

A-1

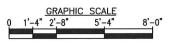




THE WIRELESS COMMUNICATIONS OPERATOR IS RESPONSIBLE FOR PLACING A WARNING SIGN ON THE POWER SUPPLY COMMUNICATING THE RF EMISSIONS IN COMPLIANCE WITH

THE CURRENT EDITION OF IEEE STANDARD C95.2. THIS SIGN MUST ALSO HAVE A 24-HOUR CONTACT PHONE NUMBER IN CASE OF EMERGENCY. THIS NUMBER MUST BE VISIBLE FROM THE GROUND.

ELEVATION 22x34 SCALE: 3/8"=1'-0" 11x17 SCALE: 3/16"=1'-0"





42.647652° N 71.183969° W

LONG:

-PROPOSED ANTENNA

11'-6"±

(AGL)

APPROXIMATE



750 WEST CENTER STREET SUITE #301 WEST BRIDGEWATER, MA 02379



DPH



CHECKED BY:

APPROVED BY:

SUBMITTALS REV. DATE DESCRIPTION 1 11/25/19 ISSUED FOR CONSTRUCTION

> CLUSTER AND NODE NUMBER: AREA6_28A

0 05/30/19 ISSUED FOR REVIEW

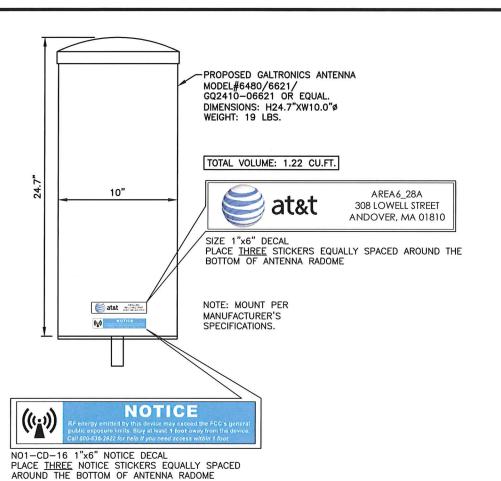
SITE ID: AREA6_28A

SITE ADDRESS: 308 LOWELL STREET ANDOVER, MA 01810 ESSEX COUNTY

SHEET TITLE

KEY PLAN AND **ELEVATION**

A-1



A-6

PROPOSED ANTENNA

PROPOSED
GALTRONICS POLE

-EXISTING/PROPOSED
UTILITY POLE
STRUCTURE

TOP MOUNTING BRACKET PART#

62-20-09 WEIGHT: 5 LBS.

MODEL	QTY	L	W	D	W	GT.
2203	2	8.0"	8.0"	4.0"	11	LB
2205	1	8.0"	8.0"	4.0"	11	LB

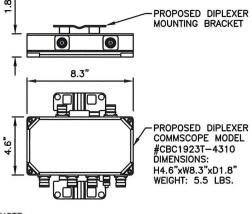
NOTE:

MOUNT PER MANUFACTURER'S SPECIFICATIONS.

RRH DETAIL

SCALE: N.T.S





NOTE: MOUNT PER MANUFACTURER'S SPECIFICATIONS.

DIPLEXER DETAIL (AS REQUIRED)

SCALE: N.T.S





at&t

CENTERLINE

550 COCHITUATE ROAD FRAMINGHAM, MA 01701

750 WEST CENTER STREET

SUITE #301
WEST BRIDGEWATER, MA 02379

DANIEL P.

PAMM
CIVE
Mo. 40720

RESISTERED

CHECKED BY:

APPROVED BY:

DPH

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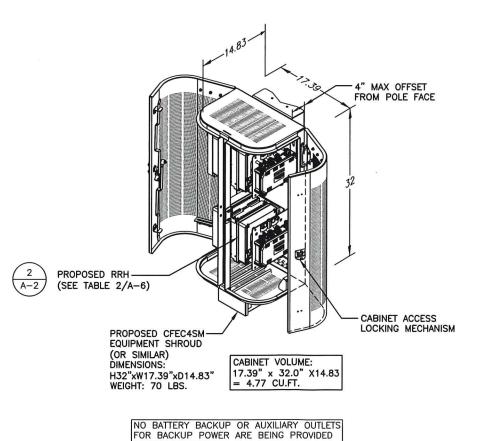
SITE ADDRESS: 308 LOWELL STREET ANDOVER, MA 01810 ESSEX COUNTY

SHEET TITLE

EQUIPMENT DETAILS

SHEET NUMB

A-2



MOUNT PER MANUFACTURER'S SPECIFICATIONS.

EQUIPMENT CABINET DETAIL

IN THIS DESIGN

SCALE: N.T.S

NOTE:
MOUNT PER MANUFACTURER'S SPECIFICATIONS.

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ANTENNA DETAIL

SCALE: N.T.S

ANTENNA MOUNT DETAIL

SCALE: N.T.S

4

A-2



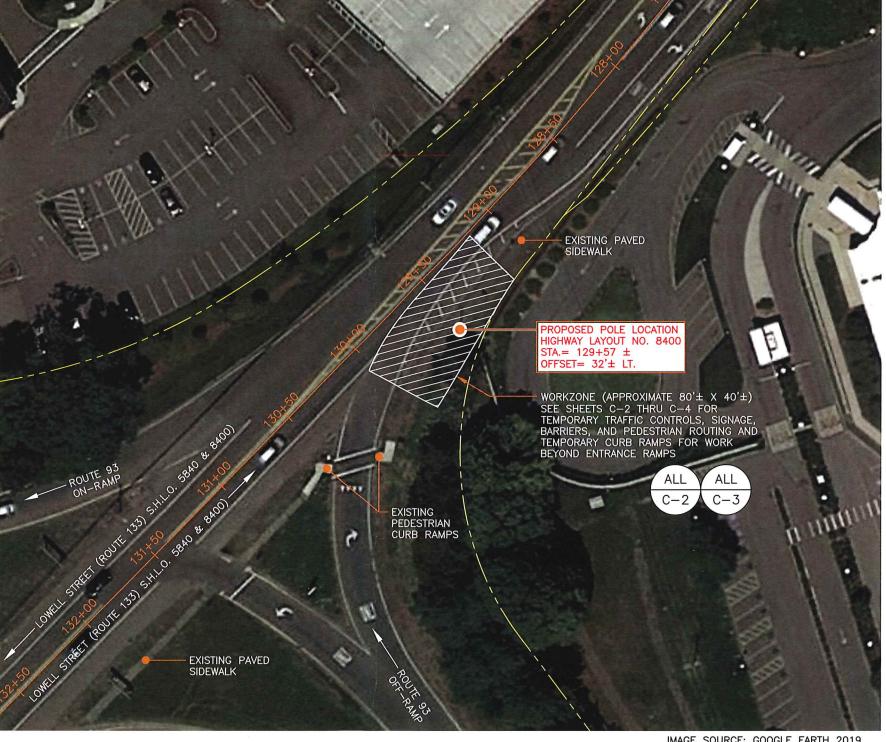


IMAGE SOURCE: GOOGLE EARTH 2019

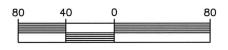
NOTES:

- HIGHWAY LAYOUT SHOWN IN ORANGE IS BASED ON PLANS OF STATE HIGHWAY LAYOUT NO. 8400, PLAN OF ANDOVER 2014 ALTERATION ONE SHEET, ALTERED AND LAID OUT AS A STATE HIGHWAY, DATED JULY 16, 2014, PREPARED BY BAYSIDE ENGINEERING. ADDITIONAL LAYOUT INFORMATION BASED ON PLANS OBTAINED THROUGH MASSDOT STATE HIGHWAY LAYOUT MAPS GIS DATA BASE: STATE HIGHWAY LAYOUT NO. 4554, ANDOVER - 1957 ALTERATION - SHEET 2 OF 13 SHEETS (PLAN DATE NOT PROVIDED); STATE HIGHWAY LAYOUT NO. 5840, ANDOVER - 1969 ALTERATION - SHEET 4, 5, & 6 OF 6 SHEETS (PLAN DATE NOT PROVIDED)
- 2. THE LOCATION IS APPROXIMATE BASED ON COMPILING RECORD DOCUMENTS. FIELD SURVEY OF HIGHWAY MONUMENTS HAS NOT BEEN PERFORMED BY PROTERRA DESIGN GROUP, LLC. LOCATION OF OBJECTS AND ALIGNMENTS SHOWN HEREON MAY BE REVISED AS ADDITIONAL OR MORE ACCURATE INFORMATION MAY BECOME AVAILABLE.
- 3. PROPOSED UTILITY POLE LOCATION IS BASED ON PLAN OF AT&T SITE ID: AREA6_28A, 308 LOWELL STREET, ANDOVER, MA 01810, PREPARED BY HUDSON DESIGN GROUP LLC, DATED 05/30/2019.
- 4. HIGHWAY ACCESS PERMIT WITH MA DOT MAY BE REQUIRED, CONTRACTOR TO CONFIRM PRIOR TO CONSTRUCTION.
- 5. 40 MPH POSTED SPEED ZONE APPROXIMATELY 50 FEET NORTHEAST OF PROJECT SITE.



MassDOT HIGHWAY LAYOUT PLAN

11x17 SCALE: 1"=80' 22x34 SCALE: 1"=40'



APPROXIMATE LAT: 42.647652° N POLE COORDINATES: LON: 71.183969' W

(COORDINATES PROVIDED FROM CONSTRUCTION DRAWINGS PREPARED BY OTHERS. SEE NOTE 3) ERMITTING



550 COCHITUATE ROAD FRAMINGHAM, MA 01701



750 WEST CENTER STREET, SUITE 301 WEST BRIDGEWATER, MA 02379



4 Bay Road, Building A Suite 200 Hadley, MA 01035 Ph:(413)320-4918

JMM/TEJ CHECKED BY:

APPROVED BY: JMM/TEJ

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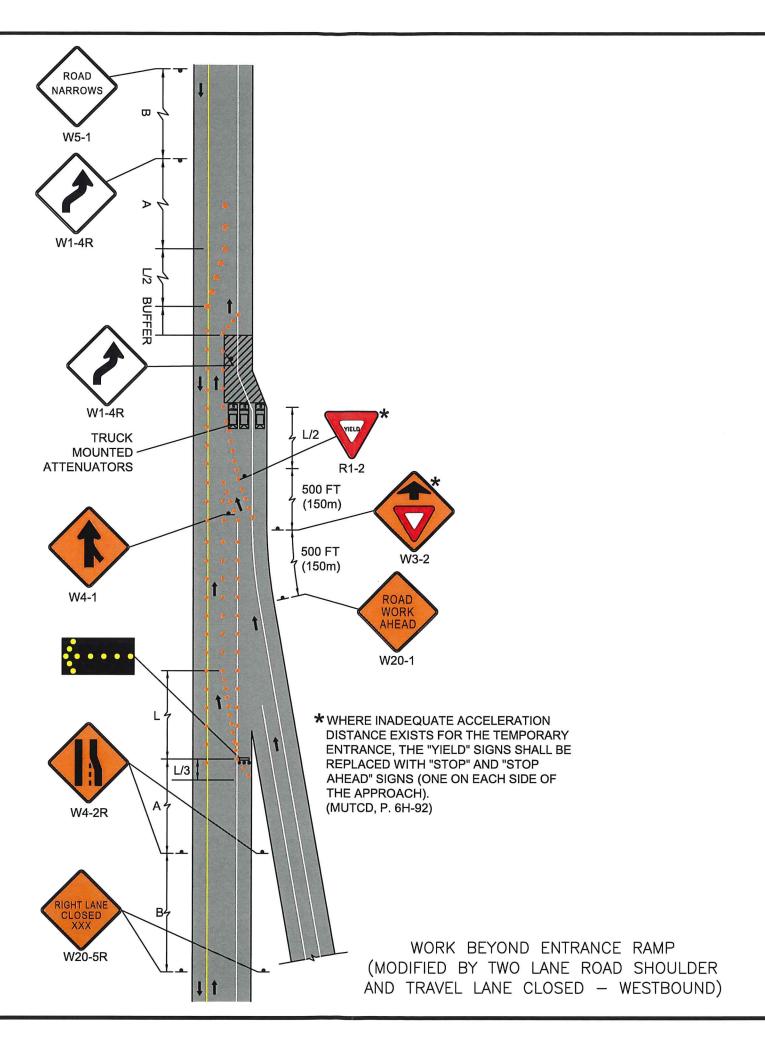
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SHEET TITLE

HIGHWAY LAYOUT PLAN

SHEET NUMBER







750 WEST CENTER STREET, SUITE 301 WEST BRIDGEWATER, MA 02379



4 Bay Road, Building A Suite 200 Hadley, MA 01035 Ph:(413)320-4918

CHECKED	BY:	JMM/TEJ

APPROVED BY:	.IMM /TF.

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CLUSTER AND NODE NUMBER: AREA6_28A

SITE ID: AREA6_28A

SITE ADDRESS: 308 LOWELL STREET ANDOVER, MA 01810 ESSEX COUNTY

SHEET TITLE

TEMPORARY TRAFFIC CONTROLS

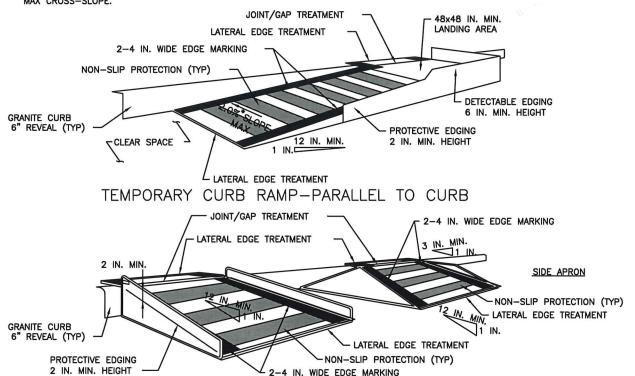
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C-2

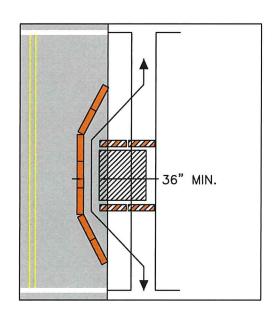
- PROTECTIVE EDGING WITH A 2 IN. MINIMUM HEIGHT SHALL BE INSTALLED WHEN THE CURB RAMP OR LANDING PLATFORM HAS A VERTICAL DROP OF 6 IN. OR GREATER OR HAS A SIDE APRON SLOP STEEPER THAN 1:3 (3%), PROTECTIVE EDGING SHOULD BE CONSIDERED WHEN THE CURB RAMPS OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 3 IN OR MORE.
- 3. DETECTABLE EDGING WITH 6 IN. MINIMUM HEIGHT AND CONTRASTING COLOR SHALL BE INSTALLED ON ALL CURB RAMP LANDINGS WHERE THE WALKWAY CHANGES DIRECTION
- 4. CURB RAMPS AND LANDINGS SHOULD HAVE A 1:50 (2%) MAX CROSS-SLOPE.

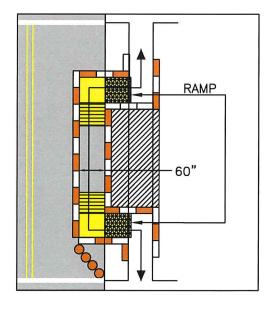
- CLEAR SPACE OF 48x48 IN. MINIMUM SHALL BE PROVIDED ABOVE AND BELOW THE CURB RAMP.
- THE CURB RAMP WALKWAY EDGE SHALL BE MARKED WITH A CONTRASTING COLOR 2 TO 4 IN. WIDE MARKING. THE MARKING IS OPTIONAL WHERE COLOR CONTRASTING EDGING
- WATER FLOW IN THE GUTTER SYSTEM SHALL HAVE MINIMAL RESTRICTION.

 8. LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE
- LESS THAN 0.5 IN. WIDTH.
- CHANGES BETWEEN SURFACE HEIGHTS SHOULD NOT EXCEED 0.5 IN. LATERAL EDGES SHOULD BE VERTICAL UP TO 0.25 IN. HIGH, AND BEVELED AT 1:2 BETWEEN 0.25 IN. AND 0.5

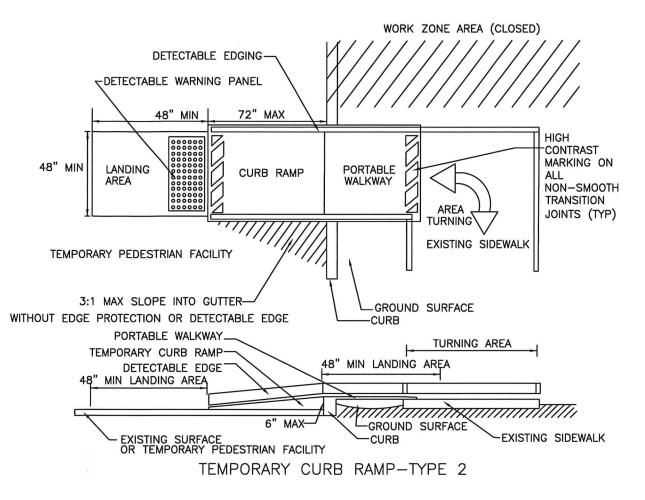


PROTECTIVE EDGE TEMPORARY CURB RAMP-PERPENDICULAR TO CURB PEDESTRIAN DETAILS





PEDESTRIAN DETAILS



PEDESTRIAN **DETAILS**

- When existing pedestrian facilities are disrupted, closed, or relocated in a TTC zone, temporary facilities shall be provided and they shall be detectable and include accessibility features consistent with the features present in the existing pedestrian facility.
- A pedestrian channelizing device that is detectable by a person with a visual disability traveling with the aid of a long cane shall be placed across the full width of the closed sidewalk.
- · When used, temporary ramps shall comply with Americans with Disabilities Act (see Figures Ped-1 & Ped-2).
- The alternate pathway should have a smooth continuous hard surface for the entire length of the temporary pedestrian facility.
- The protective requirements of a TTC situation have priority in determining the need for temporary traffic barriers and their use in this situation should be based on engineering judgment.
- Audible information devices should be considered where midblock closings and changed crosswalk areas cause inadequate communication to be provided to pedestrians who have visual disabilities.

AUDIBLE DEVICES

For long term sidewalk closures (at a minimum overnight) a form of speech messaging for pedestrians with visual disabilities shall be provided. Audible information devices such as detectable barriers or barricades and other passive pedestrian activation (motion activated) devices should be considered for these cases. These audible devices can be mountable or stand alone.

PERMITTING



550 COCHITUATE ROAD FRAMINGHAM, MA 01701



750 WEST CENTER STREET, SUITE 301 WEST BRIDGEWATER, MA 02379



4 Bay Road, Building A Suite 200 Hadley, MA 01035 Ph: (413)320-4918

JMM/TEJ CHECKED BY:

APPROVED BY: JMM/TEJ

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CLUSTER AND NODE NUMBER: AREA6 28A

> SITE ID: AREA6 28A

SITE ADDRESS 308 LOWELL STREET ANDOVER, MA 01810 ESSEX COUNTY

SHEET TITLE

TEMPORARY TRAFFIC CONTROLS

SHEET NUMBER

NOTES:

- ALL TEMPORARY TRAFFIC CONTROL WORK SHALL CONFORM TO THE LATEST EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) AND ALL REVISIONS, UNLESS SUPERCEDED BY THESE PLANS.
- 2. ALL SIGN LEGENDS, BORDERS, AND MOUNTING SHALL BE IN ACCORDANCE WITH THE MUTCD.
- TEMPORARY CONSTRUCTION SIGNING AND ALL OTHER TRAFFIC CONTROL DEVICES SHALL BE IN PLACE PRIOR TO THE START OF ANY WORK.
- 4. TEMPORARY CONSTRUCTION SIGNING, BARRICADES, AND ALL OTHER NECESSARY WORK ZONE TRAFFIC CONTROL DEVICES SHALL BE REMOVED FROM THE HIGHWAY OR COVERED WHEN THEY ARE NOT REQUIRED FOR CONTROL OF TRAFFIC.
- SIGNS AND SIGN SUPPORTS LOCATED ON OR NEAR THE TRAVELED WAY, CHANNELIZING DEVICES, BARRIERS, AND CRASH ATTENUATORS MUST PASS THE CRITERIA SET FORTH IN NCHRP REPORT 350, "RECOMMENDED PROCEDURES FOR THE SAFETY PERFORMANCE EVALUATION OF HIGHWAY FEATURES" AND/OR "MANUAL FOR ASSESSING SAFETY HARDWARE" (MASH).
- 6. CONTRACTORS SHALL NOTIFY EACH ABUTTER AT LEAST 24 HOURS IN ADVANCE OF THE START OF ANY WORK THAT WILL REQUIRE THE TEMPORARY CLOSURE OF ACCESS, SUCH AS CONDUIT INSTALLATION, EXISTING PAVEMENT EXCAVATION, TEMPORARY DRIVEWAY PAVEMENT PLACEMENT, AND SIMILAR OPERATIONS.
- 7. THE FIRST TEN PLASTIC DRUMS OF A TAPER SHALL BE MOUNTED WITH TYPE A LIGHTS.
- 8. THE ADVISORY SPEED LIMIT, IF REQUIRED, SHALL BE DETERMINED BY THE ENGINEER.
- 9. DISTANCES ARE A GUIDE AND MAY BE ADJUSTED IN THE FIELD BY THE ENGINEER.
- 10. MAXIMUM SPACING OF TRAFFIC DEVICES IN A TAPER (DRUMS OR CONES) IS EQUAL IN FEET TO THE SPEED LIMIT IN MPH.
- 11. MINIMUM LANE WIDTH IS TO BE 11 FEET (3.3m) UNLESS OTHERWISE SHOWN. MINIMUM LANE WIDTH TO BE MEASURED FROM THE EDGE OF DRUMS OR MEDIAN BARRIER.
- 12. ALL SIGNS SHALL BE MOUNTED ON THEIR OWN STANDARD SIGN SUPPORTS.

LEGEND:

ARROW BOARD

CHANGEABLE MESSAGE SIGN

REFLECTORIZED PLASTIC DRUM
OR 36" CONE

P/F POLICE/FLAGGER DETAIL

TYPE III BARRICADE

WORK ZONE

DIRECTION OF TRAFFIC

IMPACT ATTENUATOR

MEDIAN BARRIER

WORK ZONE

DIRECTION OF TRAFFIC

IMPACT ATTENUATOR

MEDIAN BARRIER

WORK VEHICLE

TRUCK MOUNTED ATTENUATOR

TRAFFIC OR PEDESTRIAN SIGNAL

SUGGESTED WORK ZONE WARNING SIGN SPACING

WARNING LIGHTS

MEDIAN BARRIER WITH

ROAD TYPE	DISTANCE BETWEEN SIGNS **		
ROAD TIFE	Α	В	С
LOCAL OR LOW VOLUME ROADWAYS*	350 (100)	350 (100)	350 (100)
MOST OTHER ROADWAYS*	500 (150)	500 (150)	500 (150)
FREEWAYS AND EXPRESSWAYS*	1,000 (300)	1,500 (450)	2,640 (800)

* ROAD TYPE TO BE DETERMINED BY MASSDOT OFFICE OF TRANSPORTATION PLANNING.

** DISTANCES ARE SHOWN IN FEET (METERS). THE COLUMN HEADINGS A, B, AND C ARE THE DIMENSIONS SHOWN IN THE DETAIL/ TYPICAL SETUP FIGURES. THE A DIMENSION IS THE DISTANCE FROM THE TRANSITION OR POINT OF RESTRICTION TO THE FIRST SIGN. THE B DIMENSION IS THE DISTANCE BETWEEN THE FIRST AND SECOND SIGNS. THE C DIMENSION IS THE DISTANCE BETWEEN THE SECOND AND THIRD SIGNS. (THE "THIRD" SIGN IS THE FIRST ONE TYPICALLY ENCOUNTERED BY A DRIVER APPROACHING A TEMPORARY TRAFFIC CONTROL (TTC) ZONE.)

THE "THIRD" SIGN ABOVE IS TYPICALLY REFERRED TO AS AN "ADVANCE WARNING" SIGN ON THE TTCP SETUPS. THESE ADVANCE WARNING SIGNS ARE LOCATED PRIOR TO THE PROJECT LIMITS ON ALL APPROACHES (i.e. THE W20-1 SERIES (ROAD WORK XX FT) SIGNS), AND USUALLY REMAIN FOR THE DURATION OF THE PROJECT. ADDITIONAL SIGNS (i.e. "RIGHT LANE CLOSED 1 MILE" AND "LEFT LANE CLOSED 1 MILE") HAVE BEEN SHOWN IN SOME FIGURES AS EXAMPLES OF REINFORCEMENT SIGN PLACEMENT BUT ARE USED IN RARE OCCASIONS.

THE FIRST AND SECOND WARNING SIGNS ABOVE ARE REFERRED TO AS THE OPERATIONAL (DAY-TO-DAY) WORK ZONE SIGNS AND MAY BE MOVED DEPENDING ON WHERE THE SPECIFIC ROADWAY WORK FOR THAT DAY IS LOCATED.

R2-10a SIGNS SHALL BE PLACED BETWEEN THE SECOND AND THIRD SIGNS AS DESCRIBED ABOVE.

R2-10a, R2-10e, AND W20-1 SERIES SIGNS ARE TO BE INCLUDED ON ALL DETAILS/TYPICAL SETUPS.

Based on: Table 6C-1 MUTCD LATEST EDITION

STOPPING SIGHT DISTANCE AS A FUNCTION OF SPEED

-		
	SPEED*	DISTANCE
	(km/h)	(m)
	30	35
	40	50
	50	65
	60	85
	70	105
	80	130
	90	160
	100	185
	110	220
	120	250

SPEED*	DISTANCE
(mph)	(ft)
20	115
25	155
30	200
35	250
40	305
45	360
50	425
55	495
60	570
65	645
70	730
75	820

*POSTED SPEED, OFF-PEAK 85TH-PERCENTILE SPEED PRIOR TO WORK STARTING, OR THE ANTICIPATED OPERATING SPEED

THESE VALUES MAY BE USED TO DETERMINE THE LENGTH OF LONGITUDINAL BUFFER SPACES.

THE DISTANCES IN THE ABOVE CHART REPRESENT THE MINIMAL VALUES FOR RUFFER SPACING.

Source: Table 6C-2 MUTCD LATEST EDITION

CONVENTIONAL ROADWAY- A STREET OR HIGHWAY OTHER THAN A LOW-VOLUME ROAD, EXPRESSWAY, OR FREEWAY.

EXPRESSWAY - A DIVIDED HIGHWAY WITH PARTIAL CONTROL OF ACCESS.

FREEWAY- A DIVIDED HIGHWAY WITH FULL CONTROL OF ACCESS.

<u>LOW-VOLUME ROAD</u>- A FACILITY LYING OUTSIDE OF BUILT-UP AREAS OF CITIES, TOWNS, AND COMMUNITIES, AND IT SHALL HAVE A TRAFFIC VOLUME OF LESS THAN 400 AADT. IT SHALL NOT BE A FREEWAY, EXPRESSWAY, INTERCHANGE RAMP, FREEWAY SERVICE ROAD OR A ROAD ON A DESIGNATED STATE HIGHWAY SYSTEM.

Source: MUTCD LATEST EDITION

TAPER LENGTH CRITERIA FOR TEMPORARY TRAFFIC CONTROL ZONES

TYPE OF TAPER	TAPER LENGTH (L)*
MERGING TAPER	AT LEAST L
SHIFTING TAPER	AT LEAST 0.5L
SHOULDER TAPER	AT LEAST 0.33L
ONE-LANE, TWO-WAY TRAFFIC TAPER	50 FT MIN.(15 m) 100 FT(30 m) MAX.
DOWNSTREAM TAPER	50 FT MIN.(15 m) 100 FT MAX.(30 m) PER LANE

Source: Table 6C-3 MUTCD LATEST EDITION

FORMULAS FOR DETERMINING TAPER LENGTHS

SPEED LIMIT (S)	TAPER LENGTH (L) FEET
40 MPH OR LESS	L= \frac{WS^2}{60}
45 MPH OR MORE	L= WS

SPEED LIMIT (S)	TAPER LENGTH (L) Meters
60 KM/H OR LESS	$L = \frac{WS^2}{155}$
70 KM/H OR MORE	L= WS 1.6

WHERE: L = TAPER LENGTH IN FEET (METERS)

- W = WIDTH OF OFFSET IN FEET (METERS)
- S = POSTED SPEED LIMIT, OR OFF-PEAK 85TH-PERCENTILE SPEED PRIOR TO WORK STARTING, OR THE ANTICAPATED OPERATING SPEED IN MPH (KM/H)

Source: Table 6C-4 MUTCD LATEST EDITION

ERMITTING



550 COCHITUATE ROAD FRAMINGHAM, MA 01701



750 WEST CENTER STREET, SUITE 301 WEST BRIDGEWATER, MA 02379



4 Bay Road, Building A Suite 200 Hadley, MA 01035 Ph: (413)320-4918

CHECKED BY:

JMM/TEJ

APPROVED BY: JMM/TEJ

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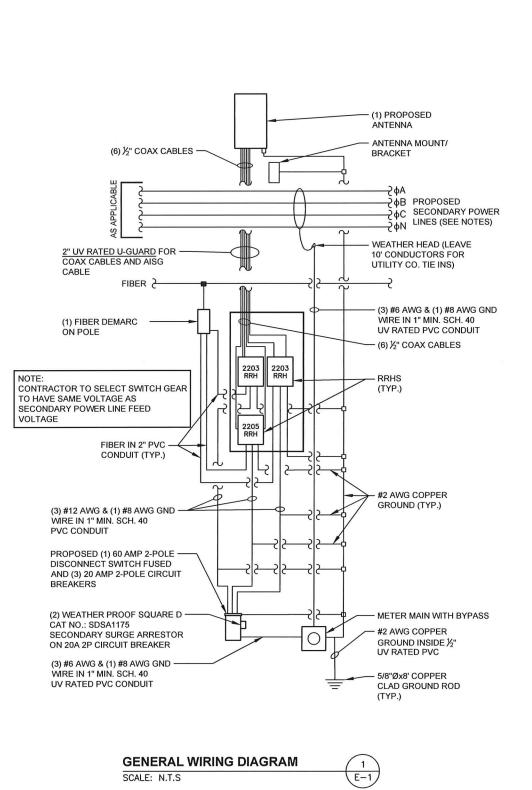
308 LOWELL STREET ANDOVER, MA 01810 ESSEX COUNTY

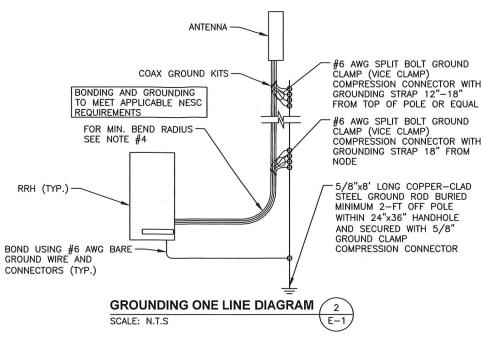
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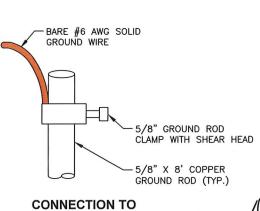
TEMPORARY TRAFFIC CONTROLS

SHEET NUMBER

C-4







GROUND ROD

SCALE: N.T.S



USE MILBAND MODEL NO .: U2272-RL-5T9-BL OR APPROVED EQUAL

WATERPROOFING KIT (SEE NOTE 3) CABLE GROUND KIT #6 AWG STRANDED COPPER-GROUND WIRE (GROUNDED TO GROUND BAR OR COMPRESSION CONNECTION) (SEE NOTES 1 & 2)

12"-24"

1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR, OR COMPRESSION CONNECTION.

GROUNDING KIT SHALL BE TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER.

1/2" CABLE -

NOTES:

3. WEATHERPROOFING SHALL BE TWO-PART TAPE KIT, COLD SHRINK SHALL NOT BE USED.

4. MINIMUM BEND RADIUS OF A CONDUCTOR SHALL NOT BE BENT TO LESS THAN 12 TIMES OVERALL CONDUCTOR DIAMETER.



METER MAIN WITH BYPASS DETAIL 5

SCALE: N.T.S



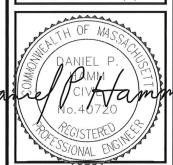


750 WEST CENTER STREET SUITE #301 WEST BRIDGEWATER, MA 02379



TEL: (978) 557-5553 FAX: (978) 336-5586

DPH



CHECKED BY:

APPROVED BY:

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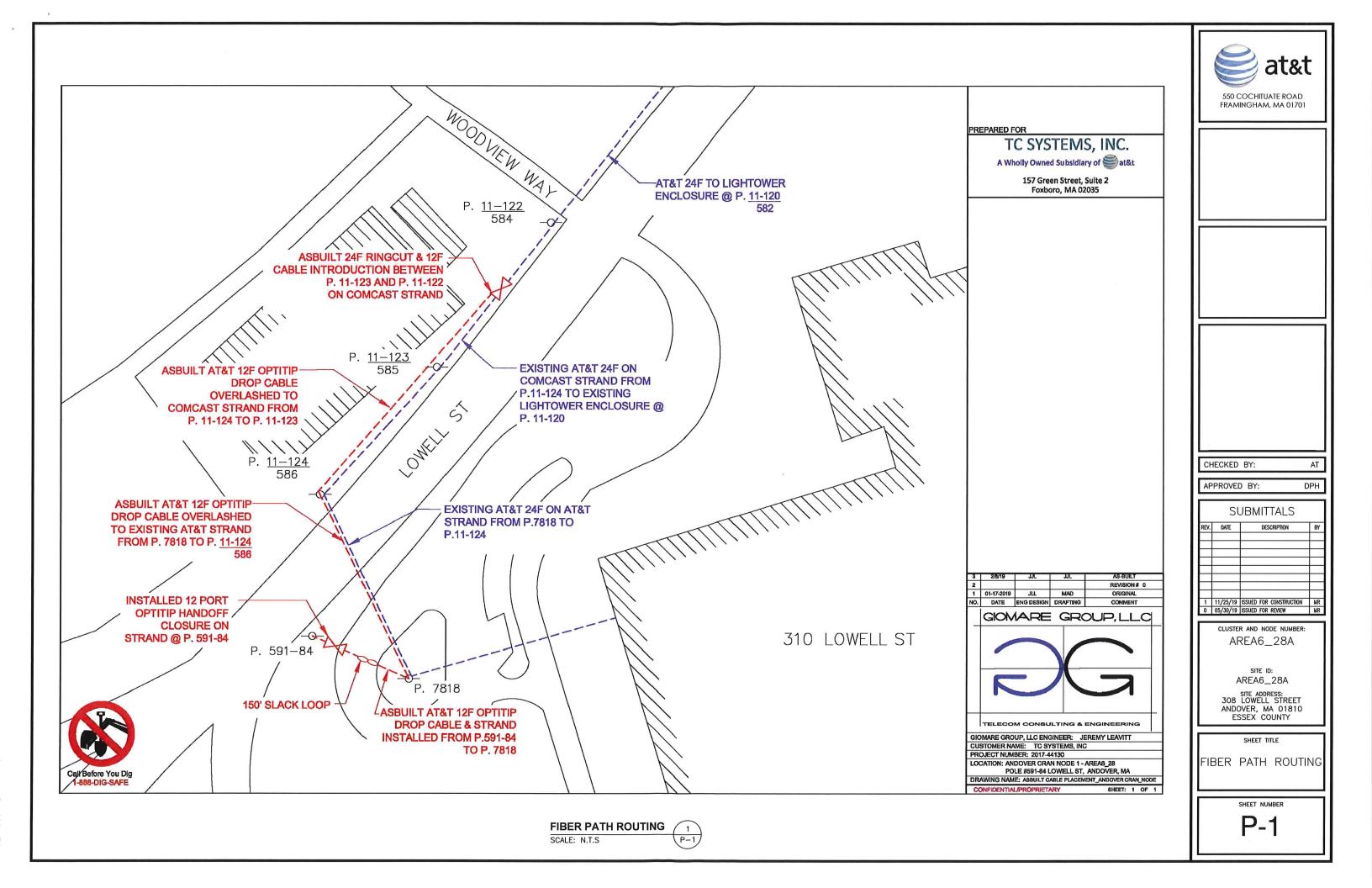
> SITE ID: AREA6_28A

SITE ADDRESS: 308 LOWELL STREET ANDOVER, MA 01810 ESSEX COUNTY

SHEET TITLE

ELECTRICAL & GROUNDING DETAILS

SHEET NUMBER



DONALD L. HAES, JR., CHP, CLSO

Radiation Safety Specialist

PO Box 198, Hampstead, NH 03841

617-680-6262

Email: donald haes chp@comcast.net

July 2, 2019

I have reviewed the information pertinent to the hypothetical installation of an AT&T Personal Wireless Services (PWS) omni-directional panel antenna installation on a utility pole. I have analyzed the scenario where there would be one antenna mounted with a centerline height of 30' above ground level (AGL). This analysis considers the contributions of the AT&T PWS transmitters operating at the following supplied parameters:

Configuration: Radio 2203 x2 (B2), Radio 2203 x2 (B66), Radio 2205					
PWS Frequency Service (MHz)		Transmitter Power Output (Watts)	Antenna Manufacturer - Anten Model Number Gain (d		
PCS	1930-1950	40 X 2	Galtronics- GQ2410-06621	6.85	
AWS	2140-2155	40 X 2	(See Appendix A)	6.85	

The calculated values of RF fields are presented as a percent of current Maximum Permissible Exposures (%MPE) as adopted by the Federal Communications Commission (FCC). Theoretical RF field calculations for the near proximity of RF source terms (in this case the AT&T transmit antennas), however, are not straight forward. For these theoretical calculations, a cylindrical model was used, where "spatially averaged plane-wave equivalent power densities parallel to the antenna may be estimated by dividing the net antenna input power by the surface area of an imaginary cylinder surrounding the length of the radiating antenna". Calculations using "far-field" formula would considerably overestimate the resultant power densities. The calculations performed for this analysis still accurately represent the "worst case" and assume 100% usage of all the antennas.

The power density estimates can be calculated by using the formula:

 $S = \frac{P_{net}}{2 \cdot \Pi \cdot R \cdot h}$

Where:

 P_{net} = Net power to antenna (watts)

R = Distance (range) from antenna

h = aperture height of the antenna

The results of the RF field calculations for a single antenna are depicted in Figure 1 showing a side view representation demonstrating the directionality of the RF energy propagating from the antenna for the configuration.

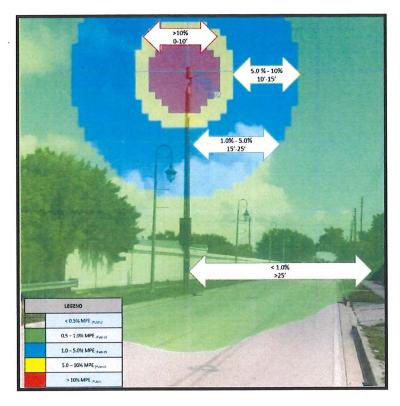


Figure 1: Results of RF field calculations for a typical AT&T antenna installation on a utility pole at 30' (AGL) showing profile view.

CONCLUSION

Theoretical RF field calculations data indicate the summation of the AT&T RF contributions on a typical utility pole would be well within the established RF exposure guidelines; see Figure 1. Although the calculations assume a typically low mounting height of 30' AGL, some applications may require the antenna to be mounted higher. In these circumstances, the increased separation between the ground and antenna would result in an even lower general public RF exposure levels. Due to the high frequency technologies used by AT&T for these small cell facilities, specifically PCS and AWS, there will be significant attenuation of the signal penetrating nearby buildings and the emissions within those buildings will be well below the FCC public limits. These results indicate there could be more similar installations at these small cell locations, and still be within Federal and State guidelines for RF exposure.

This report provides written proof that the proposed facilities would comply with the FCC RF exposure guidelines. These small cell antenna installations proposed by AT&T would not produce significant changes to the ambient RF environment.

STATEMENT OF CERTIFICATION

- 1. I certify to the best of my knowledge and belief, the statements of fact contained in this report are true and correct.
- 2. The reported analyses, opinions, and conclusions are limited only by the reported assumptions and limiting conditions, and are personal, unbiased professional analyses, opinions and conclusions.
- 3. I have no present or prospective interest in the property that is the subject of this report and I have no personal interest or bias with respect to the parties involved.
- 4. My compensation is not contingent upon the reporting of a predetermined energy level or direction in energy level that favors the cause of the client, the amount of energy level estimate, the attainment of a stipulated result, or the occurrence of a subsequent event.
- 5. This assignment was not based on a requested minimum environmental energy level or specific power density.
- 6. My compensation is not contingent on an action or event resulting from the analyses, opinions, or conclusions in, or the use of, this report.
- 7. The consultant has accepted this assessment assignment having the knowledge and experience necessary to complete the assignment competently.
- 8. My analyses, opinions, and conclusions were developed, and this report has been prepared, in conformity with the *American Board of Health Physics* (ABHP) statements of standards of professional responsibility for Certified Health Physicists.

Donald L. Haes, Jr.

Certified Health Physicist

APPENDIX A



Z Pseudo Omni 10-Port Canister Antenna [1695-2360, 3550-3700 and 5150-5925 MHz]

GQ2410-06621

Description:

- Pseudo Omni Canister Antenna for Outdoor DAS and Small Cells.
- 4x ports for AWS/PCS/WCS Band 1695-2360 MHz
- 4x ports for CBRS Band 3550-3700 MHz
- 2x ports for U-NII Band 5150-5925 MHz*



1699-2880, 3650-8700 and 8180-8828 MHz Pakudo Omoj Canister Antenna

*Complianced 788688 D02 (Seneral U-NI) Test Procedures New Rules v01104: The ancenna meets current U-NII-1 requirements for gain and upper side-floor performance. Guidalines for Compliance Testing of Unitensed National Information

Electrical Specification	5				
Frequency Band (MHz)	1695-2190	2305-2360	3550-3700	5150-5925	
Input Connector Type	4x 4.3	⊬10 (F)	4x 4.3-10 (F)	2x 4.3-10 (F)	
Isolation (Typ.)			N 48		
VSWR/Return Loss (Typ.)		1.5.1	/140dB		
Impedance			50Ω		
Polarization		Dual slant 45* (±45*) Omni (260*)			
Horizontal Beamwidth					
Vertical Beamwidth	194	15.4°	18.7*	23,0°	
Mex. Gain	6.9 dBi	8.3 dBi	8.0 dBi	5.5 dBi	
Avg. Gain	7,7 dBi	7.9 dBi	7.6 dBi	4.7 dB	
Downtilt		0:	Fixed		
Max Power / Port	100 Watts 50 Watts 1			.1 Weπ	
PIM @ 2x43 dBm	<152 dBc N/A			N/A	

2D Antenna Patterns

Release Date: May 15, 2018; Redstore 1.0 : RFD#06621

1930 MHz

3650 MHz

5825 MHz

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WWW CALTRONICS CON

From: view350 <view350@yahoo.com>

Sent: Tuesday, February 4, 2020 10:30 AM

To: SelectBoard; SelectBoard; Andrew Flanagan

Cc: Kathryn Forina; Kathryn Forina

Subject: ATT small cell application-please read before Feb 10 meeting

Good morning,

I am an Andover resident and listened to the replay of the Jan 27 Select Board meeting. I am involved with a committee which

educates our legislators and public on 4G/5G/wireless health and privacy effects. I want to share some critical informati on with

you in case you weren't already aware. I'm hoping that it can stop or at least delay the process of the ATT application and all future applications that the town may receive.

If you could respond to confirm you received this email I would greatly appreciate it.

If ATT's application came in after August 9, 2020 the town can ask ATT for a NEPA review before approval is made as a re sult of a DC Court of Appeals decision and hopefully ATT will withdraw their application. Here is a link about it:

https://linkprotect.cudasvc.com/url?a=https%3a%2f%2fwww.broadcastingcable.com%2fnews%2ffcc-officially-returns-rules-allowing-historical-environmental-site-

reviews & c = E, 1, 6x4Sl3e1 KAQzkaB7ZvUmTUNswfnw6B5KUxCuJPHvTqcYGwVDeRbvvK1DXyUjsM9-to-bereauthead and the compact of the c

8agVw8EPgVwvx39CQsruD-8nbp4shuQHEnhmEltBSBaMeE8ZskLSDe2aKC4s&typo=1

link to the DC Court of Appeals Decision on Aug 9:

https://www.cadc.uscourts.gov/internet/opinions.nsf/4001BED4E8A6A29685258451005085C7/\$file/18-1129-1801375.pdf

Western Springs, IL, a Chicago suburb, was successful in causing Crown Castle to withdraw their small cell application. Se e "Village Response to Crown Castle" in the link below. Paragraph 10 mentions the request for a NEPA review.

 $https://linkprotect.cudasvc.com/url?a=http%3a%2f%2fwsprings.com%2fcivicalerts.aspx%3fAlD%3d1644&c=E,1,mf9xikf-bh4ZMrH23lSyub0b-aZadXBLcKrc3C5jgDxH6fyUr3l5ClokKOlEH23s_eAl0hrrwFEy2kWqSOClsEz-QUC1yfPz-XkeFbdRNeTvjHrA_HzWvA,,&typo=1$

Several towns have successfully pushed back on the small cell applications which resulted in the telecoms withdrawing their applications. One of these towns was Burlington MA. Verizon withdrew their application for 7 small cells. I am awar e that

their small cell policy is exactly the same as Andover's and I was discouraged that ATT had not withdrawn their application like Verizon had in Burlington.

Jim Tigges, a Selectman in Burlington, has attended presentations on this topic- most recently at the forum in Concord M A last

month with leading experts on the harms of wireless/5G and also one given by Cece Doucette. Cece gave an excellent talk (see

the link to her talk below) at the Select Board meeting for the Massachusetts Hanscom Area Towns (HATS) of Bedford,

Concord, Lexington and Lincoln. A woman at the Andover Select Board meeting on Jan 27 asked what would happen if a car ran into a pole with a small cell installed. Cece addresses that exact same concern and the liability issues in this presentation (at minute 22:00-24:00). It is definitely worth watching the entire talk.

https://www.youtube.com/watch?v=OYzUyWPHc20

Below is a link to a MODEL WIRELESS TELECOMMUNICATIONS ORDINANCE for Siting of "Small Cell" Telecommunication I nfrastructure in Public RightsWay. They looked at many towns' small cell policies throughout the country to come up wit h this comprehensive ordinance.

https://linkprotect.cudasvc.com/url?a=https%3a%2f%2f8a6b8cd0-359b-4b1b-b042-

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vUK1YSjAaLRHshFDtssCMtw4nmvOZgxHvMuU3ZwLflq8Urn7MunrlybjaB2FZ2TojWvk5829VHCGlXpqOCU,&typo=1

5G or 4G (or any wireless antenna) installation on a light pole is cruel and inhumane..the radiation is way too close to people.

5G also uses substantially more energy.

New Hampshire has established a commission to study the environmental and health impacts of 5G https://linkprotect.cudasvc.com/url?a=https%3a%2f%2flegiscan.com%2fNH%2ftext%2fHB522%2fid%2f1850440&c=E,1, bZzk1qK9-iATxJ8pydQ3-jN3HGaKcgzn5QiMFGHgmHQFWbmYFtnqvUKltoJHlehgcMloRuhQyllk9aN6ygay4Byr11vD9mB7-WyTdApfsPaSq15XYida5HL0T7Ct&typo=1

Massachusetts is leading the country with 20 bills addressing various aspects of wireless radiation, including 5G, schedul ed to

come out of committee this week. The committee I'm on has been actively involved in that effort.

The link below is to a 5 minute video on 5G which condenses comments from Senators, physicians, and other experts tes tifying

on 5G. At the end of the video links come up to full testimonies of the video clips if you'd like to review them.

https://www.youtube.com/watch?v=hKowG0XV50k

Thank you for your time and for reading this email. Perhaps you were already aware of all of this information but I wante d to

provide this to you in case you weren't. Please let me know if you have any questions or if there is any other information. I can provide. I can also provide links to full testimonies from scientists, physicians, etc educating legislators. If you'd like to

discuss in person or over the phone I would welcome that. I can also set up a meeting including Cece Doucette, who I me ntioned above, if you are interested.

Sincerely, Laura Adams

From: view350 <view350@yahoo.com>

Sent: Tuesday, February 18, 2020 9:20 PM

To: SelectBoard; Andrew Flanagan

Subject: Info on small cell recertification and updated 2020 Model Small Cell Policy

Good evening,

Thank you for taking the time to read the information I forwarded you and to delay the small cell application decision to research the recertification process more thoroughly.

Towns can approve, deny, or approve with conditions. The town of Burlington approved Verizon's application with conditions.

You may want to check with Burlington to confirm, but I believe that the 'condition' was that the town would assess Veri zon a fee so the town could hire their own independent consultant to do the annual recertification. Verizon didn't want to set a precedent to have to pay this fee annually so they withdrew their 7 small cell applications.

The model small cell policy has just been updated to address FCC regulations as required under the National Environme ntal Policy Act (NEPA) and OSHA state and federal regulations. It hadn't been updated in a year but the new 2020 version wasn't yet available when I initially sent you the link. Here is a link to the updated policy.

 $https://linkprotect.cudasvc.com/url?a=https%3a%2f%2f8a6b8cd0-359b-4b1b-b042-cdb0cdb8be26.filesusr.com%2fugd%2f2cea04_66c5cc09a31045858fa03e31428054b8.pdf&c=E,1,Xpo4N8LDXcyZr7ceTFhrdlovvjH1q1gGBdQ9wZWwlCatyuE_fVk_TD4KuLHvril9vSo4vgONT1-sgBquxHekG1hw9tKp9A6KiZAjj38yHoQlAg_2kg,,&typo=1$

Encinitas, CA, recently banned small cells from being installed near residential areas and schools: https://linkprotect.cudasvc.com/url?a=https%3a%2f%2fwww.sandiegouniontribune.com%2fcommunities%2fnorth-county%2fstory%2f2019-10-31%2fencinitas-to-ban-5g-wireless-antennas-near-schools-daycares-residences&c=E,1,emD-zlEnUSmEcvUlhkppAYK54fwQsZYzilwuxdMW4bKNhkgZDr2RLFx6_4d105RmYXPeSf5mR04cwERgWQunPYKlxlJIHPkRb8RG SHjWCEYJlxOr&typo=1

Below is a link to a summary of an article from Harvard Ethics and within it is link to a pdf of the entire article. Captured Agency: How the Federal Communications Commission Is Dominated by the Industries It Presumably Regulates https://ethics.harvard.edu/news/new-e-books-edmond-j-safra-research-lab

Below are links to several different recent lawsuits against the FCC:

https://linkprotect.cudasvc.com/url?a=https%3a%2f%2flawandcrime.com%2fadministrative-law%2fscientists-sue-fcc-for-dismissing-claims-that-cell-phone-radiation-causes-cancer%2f&c=E,1,48_MVW4baNPFj47a1J_-CcacNQRPKmFKtynv04n0H6sqiJkaixkEk4D4sbHZgl9TF0v-XTk4Gnq5syrdo_Szd3l9QUHC9F1uL2LRl9NAeGP0psOfs_Mu7iCycQ,,&typo=1

https://linkprotect.cudasvc.com/url?a=https%3a%2f%2fchildrenshealthdefense.org%2fnews%2frobert-kennedy-jr-assembles-legal-team-to-sue-fcc-over-wireless-healthguidelines%2f&c=E,1,iMxvLYvJL1uOtugLvvelVIPbPqC75OrQRD3ABLlWwCAX6b2Wg_BMFdgqhdKDqeg92zkjMgwu5_wRKY 21A6qKajii7r3jEimrTlhXqugK&typo=1

 $https://linkprotect.cudasvc.com/url?a=http\%3a\%2f\%2firregulators.org\%2f\&c=E,1,XLUOFNFRPFrYDy72QUsHJs0W1_Bd5cfngzmeehY116TMdwYan-$

QwpAdHGWUedEFEnQWIF4qbR62ZG7RM8rx8DNMXqCtBbaCj5QwHrA2hVrInfKxazUI4P3vK&typo=1

Here is a brief fact sheet on how 5G will negatively affect the climate and birds, bees, etc.

https://linkprotect.cudasvc.com/url?a=https%3a%2f%2fehtrust.org%2fwp-content%2fuploads%2f5G-and-Climate-Change-Flyer-content%2fuploads%2f5G-and-Climate-Change-Flyer-content%2fuploads%2f5G-and-Climate-Change-Flyer-content%2fuploads%2f5G-and-Climate-Change-Flyer-content%2fuploads%2f5G-and-Climate-Change-Flyer-content%2fuploads%2f5G-and-Climate-Change-Flyer-content%2fuploads%2f5G-and-Climate-Change-Flyer-content%2fuploads%2f5G-and-Climate-Change-Flyer-content%2fuploads%2f5G-and-Climate-Change-Flyer-content%2fuploads%2f5G-and-Climate-Change-Flyer-content%2fuploads%2f5G-and-Climate-Change-Flyer-content%2fuploads%2f5G-and-Climate-Change-Flyer-content%2fuploads%2f5G-and-Climate-Change-Flyer-content%2fuploads%2f5G-and-Climate-Change-Flyer-content%2fuploads%2f5G-and-Climate-Change-Flyer-content%2fuploads%2f5G-and-Climate-Change-Flyer-content%2f0G-and-Climate-Change-Flyer-content%2f0G-and-Change-Flyer-contentFlyer-contentFlyer-contentFlyer-contentFlyer-contentFlyer-contentFlyer-contentFlye

 $EHT.pdf\&c=E,1,yOZTbPOB97ankBuUHPXeNV67TJGB2AjArv57d4_wtC6q2uJqT7Myp7VFl4whTlSQvzYOWgrEXFhO5_yCFsiA-quYu_eh8-9f6Z4y4cq1osxaub8KYQk,&typo=1$

See the article below on a much preferred solution-fiber to the premises..more secure, faster, safer, etc.

Re-Inventing Wires: the Future of Landlines and Networks https://linkprotect.cudasvc.com/url?a=http%3a%2f%2felectromagnetichealth.org%2fwp-content%2fuploads%2f2018%2f05%2fWires.pdf&c=E,1,L4eyY5Isgm7nSQvZLUr_GpjpO1Qxy4gXp07jzgOxJFnCWUFNQQ0K x3Vb4ieYNvRHI2bXtO7xs6ahIPTPV8JTsFgaGYq3gZ1p0DdNSq2Gy2n-NFdMBb&typo=1

I hope this information was helpful. Please let me know if there is any other information I can provide.

Sincerely, Laura Adams

From: Tom Murdock <thomas.p.murdock@gmail.com>

Sent: Friday, February 21, 2020 9:26 AM

To: Laura Gregory; Annie Gilbert; Daniel Koh; Chris Huntress; Alexander Vispoli

Cc: SelectBoard Subject: 5G in Andover

Hi all - 4 voters here in Andover in favor of 5G in the town as quickly as possible.

Just like any town, we are competing with other towns. We compete for families that will help raise our property values and thus the tax base and revenue available for the town. We're competing for businesses to stay here or grow here.

Lagging behind in up-coming technology puts us at a competitive disadvantage to other towns who will adopt this technology to get an edge. You don't hear it today, but tomorrow, home buyers will be asking "is 5G available in the neighborhood?"

When the telephone and electricity came about, we didn't say that telephone poles would not "add to the character of the town". We said, "wow this is the new way forward, put up the poles!" We didn't stop businesses and homes from using WiFi technology (which like 5G also falls well below the FCC guidelines for radiation). Today, both are just the normal way of life. Tomorrow, so will 5G.

Further, Ms. Gregory, I appreciate you trying to look out for Andover, but your comment in the Tribune makes you come across as uninformed on the issue. These antennas are not the size of a refrigerator. They are quite small and will only get smaller (like all technology) in the coming years.

Vote to approve this.

Thank you for your time!

Tom Murdock 12 Belle Haven Drive

--

Tom Murdock 857-251-2506 thomas.p.murdock@gmail.com

From: wiresbyweisner@aol.com

Sent: Friday, February 21, 2020 12:10 PM

To: SelectBoard

Subject: 5G installation by AT&T

Please call on MA EMF Bills today!

This is a very active group in MA. Cecilia Doucette is an extremely knowledgeable person as far as dealing with health hazard advocacy and legislation..You've heard from the telecom industry, but you'll find another heavily researched point of view..This is from the standpoint of doing your due diligence.

c2douce@gmail.com.

Thank you Dr. Stephen Weisner 6 Cricket Circle Andover MA

Sent from Mail for Windows 10

From: view350 < view350@yahoo.com>
Sent: Sunday, February 23, 2020 8:54 AM
To: SelectBoard; Andrew Flanagan

Subject: Discrepancy in the AT&T RF Report and Emissions Analysis Report

Good morning,

I noticed the following inconsistency/inaccuracy in the two reports and wanted to let you know just in case you weren't already aware.

The purpose of the AT&T small cell application is to improve coverage and capacity in the targeted area. In the AT&T RF report dated Jul 10, 2019 on the top of page 4 in section 3. Coverage and Capacity it states that better coverage is needed, especially inside buildings. However, in the AT&T emissions analysis report you just received (by Donald L. Haes Jr) in the conclusion in the 4th sentence it states that due to the high frequency technologies used by AT&T there will be significant attenuation of the signal. This is incongruent with the goal of trying to improve coverage inside buildings.

Based on the configuration of the small cell antenna and the details in the appendix in Mr. Hae's report, it will be in the mid-band spectrum, not the high millimeter wave band (24 GHz and higher) which was referred to in the 4th sentence of the conclusion of that report. These are very different spectrums. Unlike the high mmwave band which won't penetrate well through buildings, the mid-band will.

Laura Adams

LICENSE AGREEMENT

By and between

THE TOWN OF ANDOVER

And

(Restaurant Owner & Restaurant Name)

THE OWNER AND OPERATOR OF A RESTAURANT LOCATED WITHIN THE TOWN OF ANDOVER

This L	icense Agre	ement (the "Agre	ement") is e	entered into as	of the	day of	,
by	and	between	the	Town	of	day of Andover,	hereinafter
(herein	 nafter "Rest	aurant Owner" or g valet parking	d Operator "Licensee")	of a Restaura), and	ant located	d within the Tow, the as licensed in t	e provider who
WITN	ESSETH:						
located		AS, Licensee is or				cility within the Tourant Owner");	own of Andover
	WHERE	AS , Licensor is th	e Town of A	Andover (herei	nafter the '	'Town'');	
an area		AS , the Restaurar the attached plan;		sires to provid	e the publ	ic with Valet Park	ing Services in
facilita		AS , the Town as				ing a manner thr parking;	ough which to
purpos		AS , the Town and compatible with the			sire to coo	perate to further the	he above-stated
hereto	NOW, The agree as follows:		consideration	on of the mutu	ıal covena	ants contained her	ein, the parties
1.	License to	Provide Valet P	arking. The	Town of And	lover herel	by grants the Resta	aurant Owner a

revocable license to provide valet parking services at its restaurant facility located within the Town of Andover. The Licensee and the Valet shall comply with the terms of this Agreement, the License granted

by the Select Board, any other license related to the Restaurant facility, all applicable laws, regulations, and bylaws and all applicable rules and regulations established by the Select Board. Within the licensed area, the licensee may put and maintain no more than three (3) Temporary Valet Parking Spaces. All such services will be provided at the sole cost and expense of the Restaurant Owner. The Town of Andover shall not be liable for such cost nor obligated to reimburse the Restaurant Owner for the same. The Restaurant Owner shall be responsible for obtaining all permits or licenses at its expense for the construction of any improvements necessary to the provision of such services.

- 2. <u>Indemnification</u>. The Restaurant Owner and Valet shall indemnify, defend and save harmless the Town of Andover, its officers, and employees from and against all suits, actions, claims, demands, damages, losses, expenses, and costs of every kind and description relating to or arising from the operation, construction, or existence of the valet parking facility and service, under this Agreement.
- 3. Insurance. The Restaurant Owner and the Valet shall carry or require that there be carried Workers' Compensation Insurance for all employees and those of its contractors and/or subcontractors engaged in work at the valet parking facility, in accordance with the State Workers' Compensation Laws. The Restaurant Owner and the Valet shall furnish a certificate of insurance to the Town evidencing coverage of Workers' Compensation Insurance, and Commercial General Liability Insurance, with limits hereinafter set forth to cover the Restaurant Owner, the Valet and their contractors and subcontractors against claims which may occur or result from operations under this Agreement. Such insurance shall cover the use of all equipment related to the provision of valet parking services. The Commercial General Liability Policies shall insure against all claims and demands for bodily injury and property damage with respect to the valet parking facilities and services, with limits of \$1,000,000 per occurrence and \$2,000,000 in the aggregate. The Town shall be named as an "additional insured" in all policies for such insurance, except Workers Compensation, with specific reference as to coverage related to this License Agreement. All such policies shall provide a waiver of subrogation in favor of the Town. The Restaurant Owner, the Valet (and their heirs, successors and assigns in interest) shall hold harmless, defend and indemnify the Town of Andover and its employees and agents from any responsibility, liability and claims arising out of or related to the operations under this agreement. The Restaurant Owner and the Valet shall furnish to the Town a certificate of insurance and endorsements that the Town is an additional insured and that there is a waiver of subrogation in favor of the Town prior to commencing any work, construction or services of the facilities and services authorized under this Agreement. Where such insurance is renewed or replaced the Restaurant Owner and the Valet shall furnish the Town with a certificate of insurance evidencing same.
- 4. <u>Maintenance</u>. The Restaurant Owner shall maintain the premises utilized for the provision of valet parking facilities and services under this Agreement in a clean and orderly condition. The Restaurant Owner assumes responsibility for the removal of any debris generated by the operation, or existence of the valet parking facility and service. Any valet station or podium used for this service shall be removed during the hours that valet parking is not being provided. These duties assumed by the Restaurant Owner include but are not limited to: General maintenance and cleaning of fixtures; Sweeping; Trash removal; and Security, including the removal of any person who becomes disorderly.

The Restaurant Owner shall be solely responsible for any costs and losses associated with such maintenance, and any other maintenance duties.

5. <u>Term.</u> The License granted herein shall begin after it is approved by the Select Board and upon execution of this Agreement and payment of the License Fee and shall expire on December 31st immediately following, unless sooner revoked. Notwithstanding the foregoing sentence this License is revocable at the will of the Andover Select Board at any time at the total discretion of said Select Board. At the expiration or revocation of this License, the Licensee shall promptly remove all furniture and

articles placed in the valet parking area, and return the area to condition at least as good prior to the issuance of this License.

- 6. <u>Hours of Operation</u>. The License granted hereunder neither extends the physical description of the Premises nor shortens or extends the hours during which the Licensee may carry on other lawful licensed activities in the premises to which the valet parking area is auxiliary. Valet parking services shall begin no earlier than 5pm and cease at 11pm.
- 7. This license is for valet parking associated only with the restaurant operated by the restaurant owner and named in the Valet Parking License Application.
- 8. This license shall not be effective and no valet parking shall be allowed during any parking ban imposed by the Town.
- 9. Any valet podium used by a valet parking attendant may not impede use of the public sidewalk and must be ADA compliant.
- 10. <u>Revocation</u>. The parties covenant and agree that this License is not an interest in land and is revocable at will by the Andover Select Board for any reason whatsoever or for no reason upon written notice. The License will terminate upon Licensee's receipt of said written notice described therein. Licensee acknowledges, covenants and agrees that this License is revocable at will by the Town and the Licensee further acknowledges, covenants and stipulates that in the event of such revocation, the Licensee shall have no recourse or claim against the Town for such revocation whether by way of monetary charges, a suit in equity, or otherwise.

WITNESS, the execution hereof in counterparts under seal as of the date and year first above written.

Date:	By
	Owner and Operator of Restaurant Located within the Town of Andover
Date:	By: Valet Name/Title
	By
Date:	Select Board Chair

CERTIFICATION OF GOOD FAITH

The undersigned certifies under the pains and penalties of perjury that this contract has been obtained in good faith and without collusion or fraud with any other person. As used in this certification, the word "person" shall mean any natural person, business, partnership, corporation, union, committee, club or other organization, entity, or group of individuals.

Licensee/Restaurant Owner
CERTIFICATE OF STATE TAX COMPLIANCE
Pursuant to Massachusetts General Laws, Chapter 62C, Section 49A,, whose principal place of business is at
Licensee/Restaurant Owner
Federal Identification No. of:: Licensee Number
CERTIFICATION OF GOOD FAITH The undersigned certifies under the pains and penalties of perjury that this contract has been obtained in good faith and without collusion or fraud with any other person. As used in this certification the word "person" shall mean any natural person, business, partnership, corporation, union, committee, club or other organization, entity, or group of individuals.
Valet

CERTIFICATE OF STATE TAX COMPLIANCE

Pursuant to Massachusetts (General Laws, Cha	apter 62C, S	ection 49A,	
	, whose princi	pal place of	business is at	
	, does 1	hereby certi	fy under the pains a	nd penalties of perjury
that he has paid all Massach	usetts taxes and ha	as complied	with all laws of the	Commonwealth of
Massachusetts relating to taxes	, reporting of emp	loyees and o	contractors, and with	holding and remitting
	child	l support.		
Valet				
Federal Identification No. of		:		<u></u>
	Licensee		Number	

W A R R A N T THE COMMONWEALTH OF MASSACHUSETTS ESSEX, SS.

To Either of the Constables of the Town of Andover

Greeting:

In the name of the Commonwealth you are hereby required to notify and warn the Inhabitants of said Town who are qualified to vote in Town Affairs to meet and assemble at the J. Everett Collins Center Auditorium, Andover High School, Shawsheen Road, in said Andover, on

MONDAY, THE TWENTY SEVENTH DAY OF APRIL, 2020

At seven o'clock P.M. to act upon the following articles:

ARTICLE P1	ANNUAL TOWN ELECTION

Annual Town Election: Moderator for one year, one Select Board member for three years, one School Committee member for three years, one Housing Authority member for five years, and two Punchard Free School Trustees for three years, or take any other action related thereto.

On request of the Town Clerk

ARTICLE P2	ELECTION NOT REC	QUIRED BY I	BALLOT	

To elect all other officers not required by law to be elected by ballot, or take any other action related thereto.

On request of the Town Clerk

ARTICLE P3	SALARIES OF ELECTED OFFICIALS

To establish the salaries of the elected officers for the ensuing year, or take any other action related thereto.

On request of the Town Clerk

ARTICLE P4	FISCAL YEAR 2021 BUDGET

To see if the Town will vote to determine what sums of money the Town will raise and appropriate, including appropriations from available funds, to defray charges and expenses of the Town, including debt and interest, and to provide for a reserve fund for the Fiscal Year beginning July 1, 2020 and ending June 30, 2021, or take any other action related thereto.

On request of the Town Manager

ARTICLE P5	FISCAL YEAR 2021 CAPITAL PROJECTS FUND

To see if the Town will vote to raise by taxation and appropriate the sum of money for the purpose of funding the Fiscal Year 2021 appropriation for the Capital Projects Fund, or take any other action related thereto.

On request of the Town Manager

ARTICLE P6	CAPITAL PROJECTS FROM GENERAL FUND BORROWING

To see if the Town will vote to raise by taxation, borrowing, transfer from available funds or by any combination thereof and appropriate the sum of \$7,442,000 to pay costs of purchasing capital equipment, making infrastructure improvements, or for purchasing services and materials related to capital improvements, as more particularly described below, including the payment of any other costs incidental and related thereto, or take any other action related thereto.

CIP#	Project	Amount	Statutory
			Citation
POL-2	Public Safety CAD/RMS System	\$332,000	C 44 Sec 7(9)
FR-1	Fire Apparatus Replacements	\$725,000	C 44 Sec 7(1)
FR-4	Fire Bi-Directional Amplifier System	\$300,000	C 44 Sec 7(1)
DPW-7b	Public Works Vehicles – Large	\$580,000	C 44 Sec 7(1)
DPW-8	Minor Storm Drain Improvements	\$300,000	C 44 Sec 7(1)
FAC-6	Major Town Projects	\$825,000	C 44 Sec 7(1)
FAC-7	Town & School Energy Initiatives	\$300,000	C 44 Sec 7(1)
SCH-5	Major School Projects	\$4,080,000	C 44 Sec 7(1)

On request of the Town Manager, Police Chief, Fire Chief, Director of Public Works, and Director of Facilities

ARTICLE P7	CAPITAL PROJECTS FROM FREE CASH

To see if the Town will vote to transfer from available funds and appropriate the sum of \$3,560,000 to pay costs of purchasing capital equipment, infrastructure, or for purchasing services and materials related to capital improvements, as more particularly described below, including any other costs incidental and related thereto, or take any other action related thereto.

CIP#	Project	Amount
TM-1	Town Off. Meeting Room Exp. & Public Access Imp.	\$625,000
TM-2	Sidewalk Program	\$950,000
TM-3	Cons & Open Space Imp-Haggetts/Dale St Design	\$125,000
TM-4	High Plain/Wood Hill Turf Field Complex	\$1,100,000
TM-5	Tree Fund	\$250,000
TM-6	Merrimack River Access	\$510,000

ARTICLE P8	CAPITAL PROJECTS FROM SPECIAL DEDICATED FUNDS

To see if the Town will vote to transfer from available funds and appropriate the sum of \$200,000 to pay costs of purchasing, or leasing capital equipment, infrastructure, or for purchasing services and materials related to capital improvements, including any other costs incidental and related thereto, or take any other action related thereto.

On request of the Chief Information Officer

ARTICLE P9	CAPITAL PROJECTS FROM WATER AND SEWER ENTERPRISE
	FUNDS

To see if the Town will vote to raise by taxation, borrowing, transfer from available funds or by any combination thereof and appropriate the sum of \$8,549,350 to pay costs of purchasing capital equipment, making infrastructure improvements, and purchasing services and materials related to making capital improvements, as more particularly described below, including the payment of any other costs incidental and related thereto, or take any other action related thereto.

CIP#	Project	Amount	Statutory
			Citation
DPW-12	Water & Sewer Vehicles (WER)	\$225,000	N/A
DPW-14	Water Main Replacement Projects (WEB)	\$6,000,000	Ch 44 Sec 8 (5)
DPW-17	Hydrant Replacement Program (WER)	\$100,000	N/A
DPW-18	Water Treatment GAC Replacement (WER)	\$450,000	N/A
DPW-23	Shawsheen Pump Station (SEB)	\$1,574,350	Ch 44 Sec 7 & 8
DPW-24	Minor Sanitary Sewer Collections System Imp (SER)	\$50,000	N/A
DPW-30	Inflow/Infiltration (I/I) Removal Program (SER)	\$150,000	N/A

On request of the Director of Public Works

ARTICLE	BUDGET TRANSFERS
P10	

To see if the Town will vote to transfer from amounts previously appropriated at the April 2019 Annual Town Meeting as authorized by Massachusetts General Laws Chapter 44, Section 33B, or take any other action related thereto.

On request of the Finance Director

ARTICLE	SUPPLEMENTAL BUDGET APPROPRIATIONS
P11	

To see if the Town will vote to transfer from available funds a sum of money to supplement appropriations voted at the April 2019 Annual Town Meeting, or take any other action related thereto.

ARTICLE	STABILIZATION FUND
P12	

To see if the Town will vote to appropriate and raise from taxation or available funds a sum of money to the Stabilization Fund in accordance with Massachusetts General Laws Chapter 40, Section 5B, as amended by Chapter 46, Sections 14 and 50 of the Acts of 2003 and Chapter 218 of the Acts of 2016, or take any other action related thereto.

On request of the Town Manager

ARTICLE	FREE CASH
P13	

To see what amount the Town will vote to permit the Assessors to use in Free Cash to reduce the Fiscal Year 2021 tax rate and to affect appropriations voted at the 2020 Annual Town Meeting, or take any other action related thereto.

On request of the Finance Director

ARTICLE	UNEXPENDED APPROPRIATIONS
P14	

To see what disposition shall be made of unexpended appropriations and Free Cash in the treasury, or take any other action related thereto.

On request of the Finance Director

ADTICLE	TIME VERNER ADDRODDIATIONS CARLEAT DROTECTS FIND
ARTICLE	UNEXPENDED APPROPRIATIONS CAPITAL PROJECTS FUND
P15	
F15	

To see what disposition shall be made of unexpended appropriations in the Capital Projects Fund, or take any other action related thereto.

On request of the Finance Director

ARTICLE	GENERAL HOUSEKEEPING ARTICLES (A THROUGH G)
P16	

To see if the Town will vote the following consent articles, or take any other action related thereto:

A. Grant Program Authorization To see if the Town will vote to authorize the Select Board and/or the Town Manager to apply for, accept and enter into contracts from time to time for the expenditure of any funds allotted to Andover by the Commonwealth of Massachusetts or the U. S. Government under any State or Federal grant program, or take any other action related thereto.

B. Road Contracts To see if the Town will vote to authorize the Town Manager to enter into a contract with the Massachusetts Highway Department Commissioners or the Federal Government for the construction and maintenance of public highways in the Town of Andover for the ensuing year, or take any other action related thereto.

On request of the Town Manager

C. <u>Town Report</u> To act upon the report of the Town officers, or take any other action related thereto.

On request of the Town Manager

D. Property Tax Exemptions To see if the Town will vote to accept the provisions of Section 4, Chapter 73 of the Acts of 1986 as amended by Chapter 126 of the Acts of 1988 to allow an additional property tax exemption for Fiscal Year 2021 for those persons who qualify for property tax exemptions under Massachusetts General Laws Chapter 59, Section 5, or take any other action related thereto.

On request of the Board of Assessors

E. Contracts in Excess of Three Years To see if the Town will vote in accordance with the provisions of Massachusetts General Laws Chapter 30B, Section 12(b) to authorize the Town Manager or the Superintendent of Schools to solicit and award contracts for terms exceeding three years but no greater than five years, including any renewal, extension or option, provided in each instance the longer term is determined to be in the best interests of the Town by a vote of the Select Board or the School Committee, as appropriate, or take any other action related thereto.

On request of the Town Manager

F. Accepting Easements To see if the Town will vote to authorize the Select Board and the School Committee to accept grants of easements for streets, water, drainage, sewer, public access and utility purposes or any public purpose on terms and conditions the Board and the Committee deem in the best interests of the Town, or take any other action related thereto.

On request of the Town Manager

G. <u>Rescinding of Bond Authorizations</u> To see if the Town will vote to rescind unissued bond authorizations from prior Town Meetings, or take any other action related thereto.

On request of the Finance Director

ARTICLE	GRANTING EASEMENTS
P17	

To see if the Town will vote to authorize the Select Board and the School Committee to grant easements for water, drainage, sewer and utility purposes or any public purpose on terms and conditions the Board and the Committee deem in the best interests of the Town, or take any other action related thereto.

On request of the Town Manager

ARTICLE	UNPAID BILLS
P18	

To see if the Town will vote to transfer from available funds a sum of money to pay unpaid bills for which obligation was incurred in prior fiscal years, or take any other action related thereto.

On request of the Town Accountant

ARTICLE	CHAPTER 90 AUTHORIZATIONS
P19	

To see if the Town will vote to authorize the Town to acquire any necessary easements by gift, by purchase or by right of eminent domain for Chapter 90 Highway Construction or any other federal or state aid program for road or sidewalk improvements, or take any other action related thereto.

On request of the Town Manager

ARTICLE	JERRY SILVERMAN FIREWORKS
P20	

To see if the Town will vote to appropriate and raise by taxation or available funds the amount of \$14,000 for the Jerry Silverman Fireworks Program as part of the Fourth of July festivities, or take any other action related thereto.

ARTICLE	FISCAL YEAR 2021 REVOLVING ACCOUNTS
P21	

To see if the Town will vote to authorize the following expenditure limits for revolving funds for certain Town departments under Massachusetts General Laws, Chapter 44, Section 53E½ for the fiscal year beginning July 1, 2020, or take any other action related thereto:

Revolving Fund	FY2021 Limit
Community Development & Planning Department	\$20,000
Memorial Hall Library-Lost/Damaged Materials	\$20,000
Health Clinic	\$60,000
Division of Recreation	\$625,000
Division of Youth Services	\$400,000
Field Maintenance	\$150,000
Division of Elder Services	\$225,000
Police Communications	\$50,000
School Photocopy Fees	\$10,000
Compost Program	\$60,000
Solid Waste	\$40,000
Stormwater Management	\$5,000
Fire Rescue	\$100,000
Health Services	\$100,000
Sign Shop Revolving Fund	\$10,000

On the request of the Finance Director

ARTICLE	SCHOOL DEPARTMENT REVOLVING ACCOUNT
P22	

To see if the Town will vote to accept the provisions of Massachusetts General Law Chapter 44 Section 53E ½ to allow all monies received by the School Department in connection with a fee based, Andover led professional development institute for teachers and educators, or take any other action related thereto.

On request of the School Committee

ARTICLE	SCHOOL	DEPARTMENT	SUPPLEMENTAL	FUNDING	FOR
P23	CIRCUIT I	BREAKER			

To see if the Town will vote to transfer from available funds the sum of \$212,000 to defray charges and expenses of the School Department for unanticipated out-of-district placements, or take any other action related thereto.

On request of the School Committee

ARTICLE	PEG ACCESS AND CABLE RELATED FUND EXPENSES
P24	

To see if the will Town will vote to appropriate cable franchise fees and other cable-related revenues to support PEG access services, cable related expenses, and oversight of the cable franchise agreements for fiscal year 2021, which begins on July 1, 2020, or take any other action related thereto.

On request of the Finance Director

ARTICLE	OVERLAY SURPLUS TRANSFER
P25	

To see if the Town will vote to transfer \$20,000 from Overlay Surplus to fund expenses related to the FY2021 valuation of personal property accounts of locally assessed gas distribution companies, or take any other action related thereto.

On request of the Finance Director

ARTICLE	APPROPRIATION	FROM	ELDER	SERVICES	PROGRAM
P26	STABILIZATION FU	UND			

To see if the Town will vote to transfer and appropriate the sum of \$12,000 from the Elder Services Program Stabilization Fund established under Article 1 of the May 7, 2013 Special Town Meeting to be used for the development and implementation of new programs, services and activities as recommended by the Division of Elder Services and approved by the Town Manager, or take any other action related thereto.

On request of Director of Community Services

ARTICLE	ELDERLY/DISABLED TRANSPORTATION PROGRAM
P27	

To see if the Town will vote to appropriate and raise by taxation a sum not to exceed \$12,000 for the purpose of continuing to provide for an elderly and disabled transportation subsidy program, or take any other action related thereto.

On request of the Council on Aging

ARTICLE	SUPPORT FOR ANDOVER DAY
P28	

To see if the Town will vote to appropriate and raise by taxation or transfer from available funds a sum not to exceed \$5,000 for the purpose of paying a portion of the municipal costs associated with Andover Day in the downtown, or take any other action related thereto.

On request of the Town Manager

ARTICLE	SPRING GROVE CEMETERY MAINTENANCE
P29	

To see if the Town will vote to transfer the sum of \$6,000 from the Spring Grove Cemetery Perpetual Care reserve account and appropriate the sum of \$6,000 for the purpose of cemetery maintenance including costs incidental and related thereto, or take any other action related thereto.

On request of the Director of Public Works

ARTICLE	STABILIZATION FUND BOND PREMIUM
P30	

To see if the Town will vote to transfer the sum of \$100,000 from the Bond Premium Stabilization Fund to the General Fund to offset non-exempt debt interest payments, or take any other action related thereto.

On request of the Finance Director

ARTICLE	WATER TREATMENT PLANT MAINTENANCE
P31	

To see if the Town will vote to appropriate the sum of \$300,000 in the Water Enterprise Fund for the purpose of paying various maintenance costs related to the water distribution system and the Water Treatment Plant, including any other costs incidental and related thereto, or take any other action related thereto.

On request of the Director of Public Works

ARTICLE	AUTOMATIC SPRINKLERS
P32	

To see if the Town will vote to accept the provisions of Massachusetts General Laws Chapter 148, Section 26 I, relating to automatic sprinklers, or take any other action related thereto.

On request of the Fire Chief and the Inspector of Buildings

ARTICLE	MUNICIPAL AGGREGATION PROGRAM
P33	

To see if the Town will vote to grant the Select Board authority to initiate a municipal aggregation program to aggregate the electrical load of interested residents and businesses within the Town independently, or in joint action with other municipalities, retain the right of individual residents and businesses to opt-out of the aggregation pursuant to M.G.L. c. 164. Sec. 134; and to authorize the Select Board to (i) enter into one or more agreements with one or more consultants to assist the Town with the development, implementation and administration of such aggregation program for a term of more than three years; and (ii) take any actions and execute any other documents and ancillary agreements necessary, convenient, or appropriate to accomplish the foregoing and to implement and administer the aggregation program and consultant agreements, which agreements and documents shall be on such terms and conditions and for such consideration as the Select Board deems in the best interest of the Town, or take any other action related thereto.

On request of the Town Manager

ARTICLE	SALE OF TOWN YARD PROPERTY AND PORTION OF LEWIS
P34	STREET

To see if the Town will vote to transfer the care, custody, management and control of the land and buildings known as the Town Yard, and a portion of Lewis Street to be discontinued, which land and buildings are shown as Lot 1, and bounded and described on a Plan entitled "Plan of Land in Andover, Mass. Prepared for the Town of Andover, Date: February 13, 2020, Scale 1" = 30" prepared by Andover Consultants, Inc., containing 3.404 acres, a copy of which Plan is on file with the Office of the Town Clerk, from the Select Board for the purposes for which such land and buildings are currently held to the Select Board for the purposes of sale of said land and buildings, to declare said land and buildings available for sale and to authorize the Select Board to sell said land and buildings, according to the provisions of Massachusetts General Laws Chapter 30B, substantially in accordance with the terms, conditions and restrictions set forth in the Request for Proposals on file with the Office of the Town Clerk, upon such final terms and conditions as the Select Board deems to be in the best interests of the Town, and further that the Select Board approve any other restrictions, including restrictions on use, that are in the best interests of the Town, or take any other action related thereto.

On request of the Town Manager

ARTICLE	DISCONTINUANCE OF A PORTION OF LEWIS STREET AS A
P35	PUBLIC WAY

To see if the Town will vote to discontinue as a public way that portion of Lewis Street which is described as follows:

The area shown as "Portion of Lewis Street to be Discontinued 6,722 S.F.+/-" on Plan of Land entitled "Discontinuance Plan, Portion of Lewis Street, Andover, Mass. Prepared for: Town of Andover, Date: March 2, 2017, Scale 1" = 40', Andover Consultants, Inc., 1 East River Place, Methuen, Mass., 01844," a copy of which Plan is on file in the Office of the Town Clerk, or take any other action related thereto.

ARTICLE	TAKING BY EMINENT DOMAIN OF TOWN YARD PROPERTY
P36	AND DISCONTINUED PORTION OF LEWIS STREET

To see if the Town will vote to authorize the Select Board to take by eminent domain the land and buildings known as the former Town Yard and a discontinued portion of Lewis Street, shown as Lot 1, containing 3.404 acres, and the parcel of land shown as Parcel X containing 1,884 square feet, bounded and described on the plan entitled "Plan of Land in Andover, Mass." Prepared for the Town of Andover, Date: February 13, 2020, Scale 1" =30', prepared by Andover Consultants, Inc., a copy of which Plan is on file with the Office of the Town Clerk, for the purpose of resolving any matters regarding the title and boundaries of said property, and to pay no damages for said taking, or take any other action related thereto.

On request of the Town Manager

ARTICLE	LEASE OF LAND AT THE WATER TREATMENT PLANT TO
P37	FEDERAL AVIATION ADMINISTRATION

To see if the Town will vote to authorize the Select Board to renew a lease with the Federal Aviation Administration for a parcel of land containing 0.01 acres of land, more or less, located at the water treatment plant for the purpose of an outer marker, for a term not to exceed twenty years, including renewals, upon terms and conditions the Select Board deems to be in the best interest of the Town, or take any other action related thereto.

On request of the Town Manager

ARTICLE	ZONING BYLAW AMENDMENT – SOLAR BYLAW
P38	

To see if the Town of Andover will vote to add a new Section 6.10 to the Andover Zoning Bylaw, Article VIII and amend the Andover Zoning Bylaw, Article VIII, Section 3.1.3 Table of Use Regulations Appendix A Table 1, and Section 10 Definitions by adding the following:

Add to Section 3.1.3 Table of Use Regulations, Appendix A, Table 1:

E. Other Main Uses	SRA	SRB	SRC	APT	LS	OP	GB	MU	IG	IA	ID	ID2
9. Solar Energy Systems												
a. Roof/Building- mounted	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
b. Ground- mounted, small- scale as an accessory use (See Section 6.10)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
c. Ground- mounted, medium- scale as an	РВ	РВ	РВ	РВ	PB	РВ	РВ	РВ	P B	PB	РВ	PB

accessory use (See												
Section 6.10)												
d. Ground- mounted, large- scale (See section 6.10)	N	N	N	N	N	N	N	N	РВ	PB	РВ	РВ

Add to Section 6.0 Special Regulations:

6.10 Solar

6.10.1 Purpose

The purpose of this bylaw is to encourage and regulate the creation, construction and operation of new solar energy installations by defining requirements for the placement, design, construction, operation, monitoring, modification and removal of such installations that address public safety, minimize impacts on scenic, natural and historic resources, and to provide adequate financial assurance for the eventual decommissioning of such installations.

6.10.2 Applicability

This section applies to solar energy systems proposed to be constructed after the effective date of this section, excluding those installed by or on behalf of the Town or on Town property. This section also pertains to physical modifications that materially alter the type, configuration, or size of such installations or related equipment.

The Planning Board shall act as the Special Permit Granting Authority.

6.10.3 Standards

Any installation of ground mounted solar shall meet the following standards.

- 1. The construction and operation of all solar energy systems shall be consistent with all applicable local, state and federal requirements, including but not limited to all applicable safety, construction, electrical, and communications requirements. All buildings and fixtures forming part of a solar energy installation shall be constructed in accordance with the State Building Code.
- 2. Solar energy systems, ground-mounted small-scale and medium-scale shall be allowed as an accessory use in rear yards and side yards, but not in front yards, provided such they are not located nearer to any property line of the rear yard than 10 feet or the system height, whichever is greater, they comply with the minimum setback requirements for side yards in the particular district, and do not exceed 15 feet in height in a residential district.
- 3. Landscaping that visually buffers the solar energy system from adjacent properties, including, but not limited to, walls and fences, shall be properly maintained.
- 4. Solar energy systems and access drives will not be allowed within critical habitats, wetlands and wetland buffer zones unless approved by the Conservation Commission or Massachusetts Department of Environmental Protection; however solar energy systems panels are allowed to overhang in the wetland buffer zones.

6.10.4 Special Permit Standards

The following are in addition to the standards located in section 6.10.3 that shall apply for Medium-Scale and Large-Scale Solar Energy Systems.

- 1. The size of a solar energy system as an accessory use within the residential and business districts shall be limited to that needed to generate energy consumed on-site on an annual basis as documented by prior energy usage and any permitted improvements within the next year and included in the special permit application.
- 2. For ground-mounted installations requiring a special permit, reasonable efforts, as determined by the Planning Board, shall be made to minimize visual impacts by preserving natural vegetation, screening abutting properties, or other appropriate measures. The Planning Board may also require that ground-mounted installations not occlude building signage or entry ways.
- 3. Any solar carport system for non-residential use must have a minimum clearance for emergency vehicles.
- 4. Lighting of ground-mounted solar energy systems shall be consistent with local, state and federal law. Lighting of the system's components, including appurtenant structures, shall be limited to what is required for safety and operational purposes, and shall be reasonably shielded from abutting properties. Where feasible, lighting shall be directed downward and shall incorporate full cut-off fixtures to reduce light pollution.
- 5. Signs affixed to or associated with ground-mounted solar energy installations shall comply with Section 5.2. A sign consistent with Section 5.2 shall be required to identify the owner and provide an up-to-date 24-hour emergency contact phone number.
- 6. Reasonable efforts shall be made to place all utility connections from the solar installations underground, depending on appropriate soil conditions, shape, and topography of the site and any requirements of the utility provider. Electrical transformers for utility interconnections may be above ground if required by the utility provider.
- 7. Clearing of natural vegetation shall be limited to what is necessary for the construction, operation and maintenance of the installation or otherwise prescribed by applicable laws, regulations, and bylaws.
- 8. For large-scale ground-mounted solar energy systems, height, front, side and rear setbacks shall meet the dimensional requirements of the district.
- 9. The installation owner or operator of a ground-mounted solar energy system may be required to provide a copy of the project summary, electrical schematic, and site plan to the Fire Chief. Upon request the owner or operator shall cooperate with local emergency services in developing an emergency response plan. All means of shutting down the solar energy installation shall be clearly marked. The owner or operator shall identify a responsible person for public inquiries throughout the life of the installation.

- 10. The solar energy system owner or operator shall maintain the facility in good condition. Maintenance shall include, but not be limited to, painting, structural repairs, and integrity of security measures. Site access shall be maintained to a level acceptable to the Fire Chief and Emergency Medical Services. The owner or operator shall be responsible for the cost of maintaining the solar energy installation and any access road(s), unless accepted as a public way.
- 11. Any ground-mounted solar energy system which has reached the end of its useful life or has been abandoned shall be removed. The owner or operator shall remove all structures associated with the solar energy system within one year of the cessation of said use. The owner or operator shall notify the Inspector of Buildings by certified mail of the proposed date of discontinued operations and plans for removal. Decommissioning shall consist of:
 - Physical removal of all medium-scale and large- scale ground-mounted solar energy installations, structures, equipment, security barriers and transmission lines from the site.
 - Disposal of all solid and hazardous waste in accordance with local, state, and federal waste disposal regulations.
 - Stabilization or re-vegetation of the site as necessary to minimize erosion.
- 12. The Planning Board may impose a condition requiring the owner/operator to post a bond or other financial surety acceptable to the town in an amount sufficient to cover the cost of removal and disposal of the solar energy system.
- 13. Access driveways for large-scale ground mounted solar energy systems shall be constructed to a minimum of 20 feet wide and constructed for perimeter access. Aisle width access should be reviewed by the fire department for access for emergency vehicles with a turnaround. Access drives do not have to be paved.
- 14. The land area being disturbed for the installation of large-scale ground mounted solar installations shall be landscaped to minimize surface water run-off and soil erosion.

Application:

A special permit application shall follow the provisions of subsections 9.5.3 and 9.5.4.

Add to Section 10.0 Definitions:

Solar Energy Systems - A system of devices and/or structures whose primary purpose is to transform solar energy into another form of energy or to transfer heat from a collector to another medium using mechanical, electrical, or chemical means. Includes solar photovoltaic systems, which convert solar energy to electricity, and solar-thermal collectors, which heat water.

Solar Energy Systems, Ground-mounted - A solar energy system that is structurally mounted to the ground and not to a building.

- Small-scale Having 1,750 square feet or less of solar panel area, except within the SRA and SRB Districts the solar panel area is limited to 1,000 square feet or less, including Solar Carport Systems.
- Medium-scale Having more than 1,750 square feet of solar panel area, or more than

- 1,000 square feet in districts SRA and SRB and not more than 25,000 square feet, including Solar Carport Systems.
- Large-scale Having more than 25,000 square feet of solar panel area, including Solar Carport Systems. A large-scale system can be a primary use or an accessory use.

Solar Carport System - A ground-mounted solar energy system that provides cover or shade for parking or pedestrian areas.

On request of the Andover Green Advisory Board

ARTICLE	ZONING BYLAW AMENDMENT – SECTION 5.2 SIGN BYLAW
P39	

To see if the Town will vote to amend Article VIII, Section 5.2 of the Andover Zoning Bylaws titled "Signs" by deleting the language stricken from the bylaw as shown below and adding the language in bold and italic which is shown as follows:

5.2 SIGNS.

[Amended 4-30-2002 ATM, Art. 57; 5-2-2005 ATM, Arts. 42, 43, 44, 45, 47 and 48; 5-26-2009 ATM, Art. 36]

5.2.1 Purpose.

The following sign regulations are intended to:

- 1. Preserve the historical ambiance, *small-town character* and aesthetic *appeal* character of the town;
 - 2. Preserve views of greenery and landscapes;
 - 3. 2. Maintain public safety by eliminating potential hazards to motorists *and pedestrians* ereated by distracting or confusing sign displays and excessive illumination:
 - 4. Preserve the value of private and public property;
 - 5. Preserve the non-commercial character of residential neighborhoods.
- 3. Encourage efficient communication for business identification and public information.

The following sign bylaws are crafted to be compatible with the 2015 decision of the Supreme Court in the case of Clyde Reed v. Town of Gilbert, Arizona and are intended to avoid constitutionally suspect regulations related to time limits on legal signs on private property. The Reed decision stated that sign bylaws which are content-based must withstand strict scrutiny. That is, the government must have a compelling reason to regulate speech based on content.

5.2.2 Definitions.

In this bylaw, the following terms shall apply:

- **1.** *Sign:* A sign shall consist of any of the following elements:
 - **a.** Lettering, words, numerals, emblems, trademarks, logos, images, drawings, pictures, graphics, pennants, streamers, or other devices of any material or construction, however displayed, whether as an independent structure or as part of a building or other structure or object;
 - **b.** Any visual device designed to inform, attract or draw the attention of persons outside the premises on which the device is located, including messages within or attached to windows and doors;
 - c. Any exterior building surface that is internally illuminated or decorated with gaseous tubing, LED displays or back lighting.
- **2.** *Sign Area:* The area of the smallest horizontal or vertical rectangle enclosing the entire display area of the sign. The display area of a sign is the entire area, different in color or composition from the facade or common trim of the building, used to frame or provide a background for the sign. The display area may contain open space and irregular shapes if they are part of the sign. The display area shall also include internally illuminated, back-lit or decoratively lighted sign support structures if such elements are present. The area of doublesided signs shall be calculated using the area of only one face of the sign.
- 3. *Sign Height:* The distance measured from the ground level at the base of the sign to the top of the sign or support structure, whichever is higher. For freestanding signs, the land under or surrounding the sign may not be built up or elevated to reduce the calculated height of the sign.
- **4.** Sign Support Structure: Any device, such as a pole, bracket or post, used to support asign. The sign support structure shall be excluded from the calculation of the sign area if it contains none of the elements described in § 5.2.2.1 above, and, for freestanding signs, the total width of the support structure is less than 25% of the width of the supported sign.
- **5.** Attached Sign: A sign that is either attached parallel to the facade of a building, facing in the same direction as the facade, or displayed on the fixed canopy or awning of a building.

[Amended 4-28-2010 ATM, Art. 49]

- **6.** Freestanding Sign: A sign that is supported by its own structure and is not attached to a building or other structure.
- 7. Projecting Sign: A sign mounted perpendicular to the building facade.
- **8.** Double-sided Sign: A freestanding or projecting sign having two parallel opposite faces separated by a distance of not more than 12 inches. A sign with two opposite faces that are not parallel shall be considered a double-sided sign if the two faces are joined to each other, or to a common support structure, at one end, and the angle of separation between the two faces does not exceed 30°.
- 9. Temporary Sign: A non-permanent sign that is displayed for a limited duration. Temporary signs may be exterior (displayed on the exterior or outside of a structure) or interior (attached

- or displayed from the inside of a structure, viewed from the outside through a window or other opening).
- **9.10.** *Portable or Removable Sign:* A temporary sign of any shape or configuration that is self supporting and not permanently fixed or mounted to the ground or to another structure.
- **10.11.** *Internally Illuminated Sign:* A sign that is illuminated by a light source internal to the sign. Signs having a light source that forms the exterior surface of the sign or all or part of the design elements, shall be considered to be internally illuminated.
- **11.12.** *Nonconforming Sign:* A sign, including its support structure, that does not conform to the regulations prescribed in this bylaw, but which was in existence at the time the regulations became effective and was lawful at the time it was installed or erected.
- **12.13.** *Open Space:* For the purposes of this Section 5.2. open space shall be defined as undeveloped land available to the public at no cost, for passive recreation such as hiking, bird watching, fishing, photography, picnicking, cross country skiing, biking, horseback riding or other activities which do not alter or disturb the terrain and at the same time to conserve natural and scenic resources, protect air, streams or water supply, and enhance the value of the land to the public.
- **13.14.** *Awning:* A fixed or retractable structure, whether made of canvas, plastic, metal or other material, placed over a storefront, door or window. For the purpose of this Section 5.2. Signs, awnings shall not be considered a sign. Lettering, symbols or graphic elements appearing on either the body or the valance of an awning (and not otherwise exempt) shall constitute an Attached Sign. The area of a sign displayed on an awning consists of the area encompassed by any lettering, symbols, or graphic elements distinct from the awning background color.

[Added 4-28-2010 ATM, Art. 49]

14. Commercial Sign: A sign that directly or indirectly describes or proposes a transaction involving the exchange of money or goods.

5.2.3 General Provisions.

- 1. Exemptions. The following signs are exempt from the provisions of the bylaw:
 - **a.** Flags and insignia of any government, except when they are displayed in connection with the advertising or promotion of a commercial product or service.
 - **b.** Legal notices or informational devices erected or required by public agencies.
 - c. Signs affixed to a pump from which motor fuel is sold at retail that are required by MGL Part I Title XV Chapter 94 Section 295C and/or 202 CMR 2.06. standard gasoline pumps bearing the formula and price of gasoline. Such signs shall not exceed two square feet in area. Additional signage on the pumps may not exceed 20% of the surface area of the pump.
 - **d.** Integral decorative or architectural features of buildings, except for lettering, trademarks, moving parts or parts internally illuminated or decorated with gaseous tube

or other lights.

- e. On-premises signs intended to guide and direct traffic and parking, not exceeding two square feet in area and four feet in height and bearing no elements, as defined in 5.2.2.1.a, that are not necessary to guide and direct traffic and parking, advertising matter or and having no internal illumination.
- **f.** On valances of awnings or similar devices, lettering, symbols, or graphic elements not exceeding six (6) inches in height and not exceeding 75% of the height of the valance. [Amended 5-8-2013 ATM, Art. 47]
- **g.** On awnings or similar devices, one symbol or graphic element, without text, not exceeding five square feet per awning.
- **h.** Signs located on facilities or land under the care and control of the Massachusetts Bay Transportation Authority;
- i. Banners installed subject to the provisions of the Andover General Bylaw, Article XII & 44.
- 2. Relevance. A sign shall pertain to the premises on which it is located or to products, accommodations, services or activities that regularly occur or are offered on the premises.
- **2. 3.** *Maintenance.* All signs shall be maintained in a safe and neat condition to the satisfaction of the Inspector of Buildings and in accordance with the Commonwealth of the Massachusetts State Building Code, 780 CMR.
- 3. 4. Nonconforming Signs.
 - a. Any nonconforming sign and/or support structure, legally permitted and erected prior to the adoption of this provision, or any amendments thereto, which remains unaltered in any way, may be continued and maintained.
 - **b.** Any sign associated with a business that has terminated activities loses its relevance and therefore becomes nonconforming. Any nonconforming sign and/or support structure shall be removed within 30 days of a change in use or termination of activities on the premises. [Amended 4-28-2010 ATM, Art. 49]
 - **b. e.** Nonconforming signs shall not be enlarged, rebuilt, restored or altered except in conformity with this bylaw.
 - **c. d.** Any sign which has been destroyed or damaged to the extent that the cost of repair or restoration will exceed 1/3 of the replacement value as of the date of such damage or destruction shall not be repaired, rebuilt, restored or altered except in conformity with this bylaw.
- 4. 5. Liability. No sign shall project more than five feet over any public right-of-way or other public property. Any sign projecting over a public right-of-way shall be covered by liability insurance in the amount of \$2,000,000 as verified by a certificate of insurance filed with the Town Clerk. The Town of Andover shall be named as additional insured on all such certificates.

5.2.4 Sign Permit.

Unless specifically exempted or provided for elsewhere in this section, no sign shall be installed, erected, enlarged, redesigned or structurally altered without a sign permit issued by the Inspector of Buildings.

- 1. Application and Review.
 - a. Sign Permit Application: A completed sign permit application, fulfilling all requirements for requested materials and documents and specifying all pertinent dimensions and materials, shall be submitted to the Inspector of Buildings prior to the installation or alteration of any sign for which a permit is required.
 - **b.** Review by the Design Review Board: Prior to the issuance of a sign permit, the Design Review Board (DRB) shall, within 30 days of submission of an application for a sign permit, review an application for: (a) a municipal sign in any district; and (b) a sign greater than four square feet in the General Business (GB) and Mixed Use (MU) Districts. Applications for review by the Design Review Board shall be submitted on a standard application form specified by the DRB. See § 5.2.15, Design Guidelines for Signs. [Amended 4-28-2010 ATM, Art. 49]
- **2.** Criteria for a Special Permit. When acting on an application for a special permit, the Board of Appeals shall consider the following:
 - **a.** The character of the proposed sign and its suitability to the building and the surrounding neighborhood.
 - **b.** Its relationship to the architectural style, size and scale of the building.
 - c. The relevance of the information on the sign to the business or activities conducted on the premises.
 - **c. d.** The impact of the size and illumination of the sign on other establishments and the surrounding neighborhood.
 - **d. e.** The criteria specified in § 9.6.4 of this Bylaw, and such other factors as the Board of Appeals deems appropriate in order to assure that the public interest is protected.

5.2.5 Prohibited Signs and Devices.

- 1. No sign shall be lighted, except by a steady external and stationary light source which is shielded and directed solely at the sign, unless specifically provided for in this bylaw.
- **2.** No illumination shall be permitted which casts glare onto any residential premises or onto any portion of a way so as to create a traffic hazard.
- **3.** No commercial signs shall be illuminated in any residential district, or within 200 feet of a residential district, between the hours of 9:00 p.m. and 7:00 a.m., unless the establishment is open to the public.

- **4.** No sign shall be illuminated by any color other than colorless or white light, except for temporary holiday lighting.
- **5.** No animated, revolving, flashing, backlit, exposed neon or similar exposed gaseous tube illuminated signs shall be permitted.
- **6.** No signs shall be attached to motor vehicles, trailers or other movable objects regularly or recurrently located for fixed display.
- 7. Visibility for motorists and pedestrians shall not be obstructed at any intersection, driveway, or crosswalk. See also Article VIII, § 4.1.3.2.g.
- **8.** No portable or removable sign shall be allowed in any zoning district except as permitted under § 5.2.7.3.
- 9. No attached exterior sign shall cover any portion of a window or door casing.
- **10.** No signs shall be allowed on the uppermost roof of any building.
- 11. No portion of a sign shall extend above the highest point of the roof or parapet of the building to which it is attached.
- 12. No commercial sign is allowed in zoning districts SRA, SRB, SRC and APT unless the sign pertains to an allowed commercial activity relating to or occurring on the property.
- 5.2.6 Permanent Signs allowed in all zoning districts without a permit.

The following signs are allowed in all zoning districts in addition to the signs allowed in other sections of these bylaws and not otherwise prohibited. See also specific requirements for each zoning district in § 5.2.9 through § 5.2.14, inclusive.

1. Limitations.

- a. A sign allowed by Section 5.2.6.2.a may be lighted or illuminated. No other sign allowed in Section 5.2.6 shall be lighted or illuminated.
- b. A projecting sign always requires a permit.
- c. No sign allowed in Section 5.2.6 may be erected on premises occupied by a business or organization until a sign permit has been issued for at least one other sign on the premises, except in the following cases:
 - i. Signs allowed by Section 5.2.6.2.a, Section 5.2.6.2.b and Section 5.2.6.2.c may always be erected.
 - ii. When a building, or of a unit of a building, in which a business or organization may operate is unoccupied, signs allowed in Section 5.2.6 may be erected.
 - iii. When land is undeveloped, signs allowed in Section 5.2.6 may be erected.

- iv. When a residence contains a customary home occupation, signs allowed in Section 5.2.6 may be erected.
- 2. Signs allowed without a permit in all zoning districts.
- a.1. One sign, either attached or freestanding, indicating only the name of the owner or occupant, street number and permitted uses or occupations engaged in thereon, does not require a sign permit if it does not exceed two square feet in area.
- b.2. Open Space signs. A sign on open space or other undeveloped property open to the public, bearing no commercial, or advertising material and displaying historical, cultural, educational, environmental, or safety information pertaining to such property and/or rules relating to the public use thereof, requires no sign permit if the sign is less than 35 square feet in area.
- c.5.2.7.2.a Interior temporary signs that do not exceed 30% of the transparent area of the window and/or door on which they are affixed or displayed *do not require a sign permit*.
- d.5.2.7.2.b One or more exterior signs not exceeding 15 square feet in aggregate area do not require sign permits. Each residential unit in multiple-family residences and each unit in multiple-unit nonresidential properties may erect such signs. No additional signs are allowed beyond the 15 square feet in aggregate area because of the existence of a customary home occupation at a residence.
 - e.5.2.7.2.e One *exterior* temporary sign *per property does not require a sign permit*, related to property maintenance or improvement which does not require a building permit, shall be allowed on the premises associated with the maintenance or improvement, subject to *if it meets* the following conditions:
 - i. The sign shall not be lighted or illuminated. ii. The sign shall have an area not to exceed six square feet.
 - ii. iii. The sign shall be set back a minimum of 15 feet from the nearest vehicular public or private way and shall not obstruct the line of sight for vehicles entering or exiting the property or adjacent properties.
- iv. The sign shall be removed within 30 days of the completion of the work on the premises.
- 3. Sign allowed without a permit only in zoning districts SRA, SRB and SRC.

One exterior sign per property does not require a permit if it meets the following conditions:

- i. The sign area shall not exceed 15 square feet.
- ii. A freestanding sign shall have a height not to exceed five feet and a sign attached to a structure shall have a height not to exceed 10 feet above the ground level.
- 4. Sign allowed without a permit.in all zoning districts except SRA, SRB and SRC.

One exterior sign per property does not require a permit if it meets the following conditions:

- i. The sign area shall not exceed 25 square feet.
- ii. The sign height shall not exceed 10 feet.

3. Off-Premises Directional Signs.

- a. The Board of Selectmen may allow, by special permit, one un-lighted off-premises directional sign or signs within the public right-of-way or at any intersection designating the route to an establishment not on the street or way to which the sign is oriented.
- b. The Board of Appeals may allow, by special permit, an off-premises directional sign or signs on private property designating the route to an establishment provided that the sign will not endanger public safety and is of such size, location and design that it will not be detrimental to the character of the neighborhood.
- c. No off-premises directional sign shall exceed two square feet in area.
- d. At locations where directions to more than one establishment are to be provided, all such directional signs shall be incorporated into a single sign support structure that shall not exceed six feet in height.
- 4. Except as provided in Section 5.2.7. Political speech signs shall be allowed in all-zoning districts but may not exceed the regulations for signs in said district.

5.2.7 Temporary Signs allowed in all zoning districts.

1. General requirements.

- <u>a.</u> Temporary signs shall be allowed if the sign announces or provides directions to a sale or a special event having a limited and specific duration.
- <u>b.</u> Temporary signs shall not advertise a continuing or regularly recurring business operation, product or a routinely provided service.
- <u>c.</u> Temporary signs shall be removed promptly when the information they display is out of date or no longer relevant.
- <u>d.</u> Except for political signs in Section 5.2.7.2.c below, temporary signs may be installed or in place for a period not to exceed 30 days unless otherwise specified in this By law.

[Amended 4-27-2011 ATM, Art. 47]

- 2. Temporary signs not requiring a sign permit:
 - <u>a.</u> Interior temporary signs that do not exceed 30% of the transparent area of the window and/or door on which they are affixed or displayed.
 - <u>b.</u> Exterior temporary signs, unless otherwise stipulated in this bylaw, shall not exceed 10 square feet in aggregate area per business entity. Permanently installed sign support

structures erected solely for the display of 'temporary signs' are prohibited.

- <u>c.</u> Political signs pertaining to a candidate or ballot question appearing in an upcoming duly called election in the Town of Andover.
 - i. Such signs shall be permitted only on private property.
 - ii. Such signs shall have an area not to exceed six square feet.
 - iii. Such signs shall not be higher than three feet above ground level.
 - iv. Such signs shall be stationary and shall not be illuminated.
- <u>d.</u> Unless otherwise specified in this Bylaw, temporary signs pertaining to other noncommercial issues shall require no sign permit and shall be allowed in all zoning districts. Such signs shall be subject to the requirements set forth in § 5.2.7.2.c above.
- <u>e.</u> One temporary sign, related to property maintenance or improvement which does not require a building permit, shall be allowed on the premises associated with the maintenance or improvement, subject to the following conditions:
 - i. The sign shall not be lighted or illuminated.
 - ii. The sign shall have an area not to exceed six square feet.
 - iii. The sign shall be set back a minimum of 15 feet from the nearest vehicular public or private way and shall not obstruct the line of sight for vehicles entering or exiting the property or adjacent properties.
 - iv. The sign shall be removed within 30 days of the completion of the work on the premises.
- <u>f.</u> One temporary sign, related to the construction, maintenance or improvement of a property requiring the issuance of a building permit, shall be allowed on the property associated with the building permit, subject to the following conditions:
 - i. The sign shall not be lighted or illuminated.
 - ii. A freestanding sign shall have an area not to exceed 15 square feet and a height not to exceed five feet.
 - iii. A sign attached to the structure under construction shall have an area not to exceed 15 square feet and a height not to exceed 10 feet above the ground level.
 - iv. A freestanding sign shall be set back a minimum of 15 feet from the nearest vehicular public or private way and shall not obstruct the line of sight for vehicles entering or exiting the property or adjacent properties.
 - v. The sign shall be removed within 30 days of project's completion, or when an occupancy permit is issued, whichever is sooner.

- g. A non-profit entity or institution may install a temporary sign announcing or providing directions to a specific event or occurrence, subject to the following conditions:
 - i. The sign area shall not exceed 12 square feet.
 - ii. The sign may be installed for a period not to exceed 30 days.
- 5.2.7 3. Temporary Signs requiring a Sign Permit:a. Portable or Removable Sign:

In addition to the signs allowed in other sections of these bylaws The Inspector of Buildings may issue a permit for the temporary placement of a portable or removable sign in any zoning district, that announces or provides directions to a specific event or occurrence, subject to the following conditions: The permit may impose limiting conditions, including among other matters the number of signs allowed at each location.

- i. The sign shall be securely anchored so as not to be dislodged or blow over.
- ii. The sign shall be neat and professional in appearance. The sign must be placed along a street, road or parking lot on which the property has frontage and only one sign is allowed per tenant on each such street, road or parking lot.
- **iii.** The sign shall have an area not to exceed six square feet and a height not to exceed four feet.
- iv. The sign shall be removed at the close of each business day and at the expiration of the permit.
- iv.v. The sign shall not obstruct a public or private walkway.
 - b. Real Estate Signs: The Inspector of Buildings may issue a renewable one-year permit for the temporary placement of a sign advertising the sale, rental or lease of the premises or subdivision on which the sign is erected. No sign permit for an individual sign shall be required if the erecting agent has obtained a blanket one-year permit for erecting such signs. All real estate signs shall meet the following requirements:
 - i. In the SRA, SRB, and SRC zoning districts, the sign area shall not exceed eight square feet.
 - ii. In all other zoning districts, the sign area shall not exceed 25 square
 - feet. Iii. The sign shall not be lighted or illuminated.

5.2.8 Signs in Residential Districts (SRA, SRB, and SRC, APT).

- **1.** *Single Family Residential Districts (SRA), (SRB), and (SRC).* In addition to the signs allowed in § 5.2.6 *and* § 5.2.7, the following signs are allowed:
 - **a.** One sign, either attached or freestanding, indicating only the name of the owner or occupant, street number and permitted uses or occupations engaged in thereon; does not require a sign permit and shall not exceed two square feet in area.

- **b.** Any sign, either attached or freestanding, that exceeds two square feet in area may be allowed by special permit from the Board of Appeals. In no case, however, shall the sign area exceed six square feet or the sign height exceed four feet.
- 2. Apartment Districts (APT). In addition to the signs allowed in § 5.2.6 and § 5.2.7, the following signs are allowed:
 - a. One freestanding sign, identifying entry points to the housing complex on each street on which the complex has street frontage, provided that the frontage also provides vehicular or pedestrian access to the complex. The sign area shall not exceed 15 square feet and the sign height shall not exceed eight feet.

5.2.9 Signs in General Business (GB) Districts.

In addition to the signs allowed in § 5.2.6 and § 5.2.7, the following signs are allowed for commercial or business uses:

- 1. One attached sign shall be allowed, oriented to each street and parking lot on which the commercial or business use has a facade, providing that such facade has either a window or a direct entryway into the use's space. [Amended 4-28-2010 ATM, Art. 47]
 - a. The sign may be either attached flat against the wall or placed on an awning or fixed canopy of the building.
 - **b.** No portion of the sign shall extend above the highest point of the roof or parapet of the building to which it is attached.
 - c. The sign area of a flat attached sign for any individual commercial or business use shall not exceed 15% of the portion of the facade associated with that use.
 - d. Flat attached signs oriented to the street shall not exceed 50 SF in area.
 - e. Flat attached signs oriented to a parking lot shall not exceed 25 SF in area unless they mark the primary entrance to a building or establishment, in which case the sign area shall not exceed 50 square feet.
- f. Attached signs displayed on the body of awnings or canopies shall not exceed 20% of the area of the awning or canopy, and in no case shall they exceed 25 square feet. [1] Editor's Note: Former Section 5.2.9.1.g, which immediately followed, regarding lettering on the valance of an awning, was repealed 5-8-2013 ATM, Art. 47.
- 2. In addition to the above, each building that is set back a minimum of five feet from the property line may install one freestanding sign, with a sign area not to exceed 12 square feet and a sign height not to exceed six feet above ground level.
- 3. In addition to the above, each commercial or business use may install one projecting sign on each facade providing that such facade has either a window or a direct entryway into the use's space, subject to the following conditions:
 - **a.** The sign area shall not exceed nine square feet, excluding sign support structure.

- **b.** The bottom of a projecting sign shall be at least eight feet above the ground, and the top of the sign shall be no more than 25 feet from the ground.
- c. No sign shall project more than five feet from the facade to which it is attached.
- **d.** A larger sign may be allowed by special permit from the Board of Appeals; in no case, however, shall the sign area exceed 15 square feet.
- **4.** A building occupied by multiple commercial or business uses may install a single directory sign, either attached to or projecting from the building, identifying those occupants. The total area of such a directory sign shall not exceed one square foot per occupant.
- **5.** Unlighted graphics, lettering or symbols with transparent background mounted on the inside of windows or transparent entry doors shall require no sign permit if their area does not exceed 30% of the glass or transparent area. Telephone numbers, web addresses, prices, and similar text shall not exceed two inches in height.

5.2.10 Signs in Mixed Use (MU) Districts.

In addition to the signs allowed in § 5.2.6 and § 5.2.7, the following signs are allowed:

- 1. One attached sign shall be allowed, oriented to each street and parking lot on which the commercial or business use has a facade, providing that such facade has either a window or a direct entryway into the use's space.[Amended 4-28-2010 ATM, Art. 47]
 - **a.** The sign may be either attached flat against the wall or placed on an awning or fixed canopy of the building.
 - **b.** No portion of the sign shall extend above the highest point of the roof or parapet of the building to which it is attached.
 - c. The sign area of a flat attached sign for any individual commercial or business use shall not exceed 10% of the portion of the facade associated with that use and in no case shall the sign area exceed 80 square feet.
 - d. Attached signs displayed on the body of awnings or canopies shall not exceed 20% of the area of the awning or canopy, and in no case shall they exceed 25 square feet. [1]Editor's Note: Former 5.2.10.1.e, which immediately followed, regarding lettering on the valance of an awning, was repealed 5-8-2013 ATM, Art. 47.
- 2. In addition to the above, each building that is set back a minimum of five feet from the property line may install one freestanding sign, with a sign area not to exceed 25 square feet and a sign height not to exceed eight feet above ground level.
- 3. In addition to the above, each commercial or business use may install one projecting sign on each facade of the building, subject to the following conditions:
 - **a.** The facade shall have either a window or a direct entryway to the premises.
 - **b.** The sign area shall not exceed nine square feet, excluding any sign support structure.

- c. No sign shall project more than five feet from the facade to which it is attached. The bottom of a projecting sign shall be at least eight feet above the ground, and the top of the sign shall be no more than 25 feet from the ground.[Amended 4-28-2010 ATM,Art. 49]
- **d.** A larger sign may be allowed by special permit from the Board of Appeals; in no case, however, shall the sign area exceed 15 square feet.
- **4.** A building occupied by multiple commercial or business uses may install a single directory sign, either attached to or projecting from the building, identifying those occupants. The total area of such a directory sign shall not exceed one square foot for each occupant listed thereon.
- 5. Unlighted graphics, lettering or symbols with transparent background mounted on the inside of windows or transparent entry doors shall require no sign permit if their area does not exceed 30% of the glass or transparent area. Telephone numbers, web addresses, prices, and similar text shall not exceed two inches in height.

5.2.11 Signs in Office Park Districts (OP) and Limited Service Districts (LS).

In addition to the signs allowed in § 5.2.6 and § 5.2.7, the following signs are allowed:

- 1. One freestanding sign shall be allowed for each street upon which a building or complex has frontage, subject to the following conditions:
 - **a.** The sign area shall not exceed 25 square feet and the sign height shall not exceed eight feet.
 - **b.** The Board of Appeals may grant, subject to the criteria of § 5.2.4.2, a special permit for a larger sign if required for legibility, up to 16 feet in height, if the property fronts on a high-speed, limited access highway.
- 2. In addition to the above, one attached sign for each street upon which a building or complex has frontage. The sign may be either attached flat against the wall or placed on an awning or fixed canopy of the building. No portion of the sign shall extend above the highest point of the roof or parapet of the building to which it is attached. The sign area of a flat attached sign shall not exceed 25 square feet. Attached signs displayed on the body of awnings or canopies shall not exceed 20% of the area of the awning or canopy, and in no case shall they exceed 25 square feet. [Amended 4-28-2010 ATM, Art. 48; 5-8-2013 ATM, Art. 47]
- **3.** In addition to the above, each business or tenant shall be limited to one sign (attached or projecting) for each street and parking lot on which the business or tenant has an entryway. The sign area shall not exceed three square feet. [Amended 4-28-2010 ATM, Art. 48]
- **4.** The Board of Appeals may grant, subject to the criteria of § 5.2.4.2, a special permitfor a second sign on a building facing a limited access, high-speed highway. The content of a second sign shall be limited to the name of the principal tenant of the building.

5.2.12 Signs in Industrial G (IG) Districts.

In addition to the signs allowed in § 5.2.6 and § 5.2.7, the following signs are allowed:

- 1. One sign attached flat against the wall or placed on an awning or fixed canopy of the building, identifying the name of the firm and/or goods and services available or produced on the premises, subject to the following conditions: [Amended 4-28-2010 ATM, Art. 48]
- a. The sign area of a flat attached sign shall not exceed 20% of the area of the side of the building to which it is attached, or 80 square feet, whichever is less. Attached signs displayed on the body of awnings or canopies shall not exceed 20% of the area of the awning or canopy, and in no case shall they exceed 25 square feet. [Amended 5-8- 2013 ATM, Art. 47]
 - **b.** No portion of the sign shall extend above the highest point of the roof or parapet of the building to which it is attached.
- 2. In addition to the above, one freestanding sign, identifying the name of the firm and/or the goods and services available or produced on the premises, for each street on which the property fronts, subject to the following conditions:
 - **a.** The area of each sign shall not exceed 50 square feet.
 - **b.** No part of any such sign shall be more than eight feet above ground level.
 - **c.** No such sign shall be located closer than five feet to any property line or the line of any street or way.
- 3. The Board of Appeals may grant, subject to the criteria of § 5.2.4.2, a special permitfor a larger or an internally-illuminated sign.

5.2.13 Signs in Industrial A (IA) Districts.

In addition to the signs allowed in § 5.2.6 and § 5.2.7, the following signs are allowed:

- 1. One or more signs attached flat against the wall or placed on an awning or fixed canopy of a building, identifying the name of the firm and/or the goods and services available or produced on the premises, subject to the following conditions: [Amended 4-28-2010 ATM, Art. 48]
 - **a.** The total area of all such signs on a building shall not exceed 20% of the area of the side of the building to which they are attached, or 200 square feet, whichever is less. Attached signs displayed on the body of awnings or canopies shall not exceed 20% of the area of the awning or canopy, and in no case shall they exceed 25 square feet. [Amended 5-8-2013 ATM, Art. 47]
 - **b.** No portion of the sign shall extend above the highest point of the roof or parapet of the building to which it is attached.
- 2. One freestanding sign, identifying the name of the firm and/or the goods and services available or produced on the premises, for each street on which the property fronts, subject to the following conditions:
 - **a.** The area of each sign shall not exceed 100 square feet.

- **b.** No part of any such sign shall be more than 25 feet above ground level.
- **c.** No such sign shall be located closer than five feet to any property line or the line of any street or way.
- 3. Internally illuminated signs are allowed.
- 5.2.14 Signs in Industrial D (ID) and Industrial 2 (ID2) Districts.

[Amended 4-28-2010 ATM, Arts. 48, 49; 5-8-2013 ATM, Arts. 47, 50]

In addition to the signs allowed in § 5.2.6 and § 5.2.7, the following signs are allowed:

- 1. One or more signs attached flat against the wall or placed on an awning or fixed canopy of a building, identifying the name of the firm and/or the goods and services available or produced on the premises, subject to the following conditions:
 - **a.** The total area of all such signs on a building shall not exceed 10% of the area of the side of the building to which they are attached, or 200 square feet, whichever is less. Attached signs displayed on the body of awnings or canopies shall not exceed 20% of the area of the awning or canopy, and in no case shall they exceed 25 square feet.
 - **b.** No portion of the sign shall extend above the highest point of the roof or parapet of the building to which it is attached.
- 2. In addition to the above, one freestanding sign, identifying the name of the firm and/or the goods and services available or produced on the premises, for each street on which the property fronts, subject to the following conditions:
 - a. The area of each sign shall not exceed 100 square feet.
 - **b.** No part of any such sign shall be more than 12 feet above ground level.
 - c. No such sign shall be located closer than five feet to any property line or the line of any street or way.
- 3. Internally illuminated signs are allowed.

5.2.15 Design Guidelines for Signs.

The following are further means by which the objectives for signs stated in Section 5.2.1 can be served. These guidelines are not mandatory, but the degree of compliance with them shall be considered by the Special Permit Granting Authority in acting upon special permits, and by the Design Review Board as authorized hereunder.

- 1. Efficient Communication.
 - a. Signs should not display brand names, symbols or slogans of nationally distributed products except in cases where the majority of the floor or lot area of the premises is devoted to manufacture, processing or sale of that specific product.
 - **b.** Premises chiefly identified by or associated with a specific product brand name (such as gasoline or automobiles) should devote some part of their permitted sign area

to displaying the identity of the local outlet or proprietor.

- c. Signs should not contain advertising slogans or other advertising material which is not an integral part of the name or other identification of the product or enterprise.
- **a.d.** Sign content normally should not occupy more than 40% of the sign background, whether a signboard or a building element.
- **b.e.** Non-verbal devices should be considered, in addition to text, as such graphic images can provide rapid and effective communication as well as character.
- 2. Environmental Relationship.
 - **a.** Sign brightness should not be excessive in relation to background lighting levels, e.g., averaging not in excess of one-hundred-foot-lamberts in the downtown or similarly bright areas and not in excess of twenty-foot-lamberts in unlighted outlying areas.
- **3.** Relationship to Buildings.
 - **a.** Signs should be sized and located so as to not interrupt, obscure or hide the continuity of columns, cornices, eaves, sill lines or other architectural elements of the building and, wherever possible, should reflect and emphasize the building's architectural form.
 - **b.** Sign materials, colors and lettering should be representative of and appropriate to the character of the building to which the sign relates, just as sign size should be related to building size.

On the request of Andrew Rouse and others

ARTICLE	ZONING BYLAW AMENDMENT – SECTION 10 DEFINITIONS
P40	

To see if the Town will vote to amend Article VIII, Section 10-1 of the Andover Zoning Bylaws titled "Definitions" by deleting the language within brackets from the bylaw as shown below:

Portable or Removable Sign: A [temporary] sign of any shape or configuration that is self supporting and not [permanently] fixed or mounted to the ground or to another structure.

On the request of Andrew Rouse and others

ARTICLE	MISCELLANEOUS BYLAW AMENDMENT – BANNERS IN THE
P41	GENERAL BUSINESS DISTRICT

To see if the town will vote to amend Article XII Section 44 of the Andover Bylaws titled "Banners in the General Business District" by deleting all sections, paragraphs and text and by replacing the title of Section 44 with the new title "Reserved".

On the request of Andrew Rouse and others

ARTICLE	ZONING BYLAW AMENDMENT – TABLE OF USE REGULATIONS
P42	TEMPORARY AND SEASONAL PLACEMENT OF TABLES AND
	CHAIRS

To see if the Town will amend APPENDIX A TABLE 1 Section 3.1.3 Table of Use Regulations by amending the N (prohibited use) to a BA (Special Permit/Board of Appeals) in the IA, ID and ID2 Districts of the F. Accessory Uses 8. Temporary and seasonal placement of tables and chairs in the:

	R	esidential	Districts		E	Business	Distric	ets	Inc	dustrial	Distric	ts
	SRA	SRB	SRC	APT	LS	OP	GB	MU	IG	IA	ID	ID2
F. Accessory U	ses (See Se	ction 3.2)										
8. Temporary	N	N	N	N	BA	N	BA	BA	BA	BA	BA	BA
and seasonal												
placement of												
tables and			· ·									
chairs												

On the request of the Planning Board

ARTICLE	ACQUISITION OF 65 RIVER ROAD
P43	

To see if the Town will vote to appropriate a sum of money for the acquisition, and for costs related to such acquisition, of all or part of the land at 65 River Road for municipal purposes and for any other costs incidental and related thereto, and to authorize the Select Board to acquire such land with the buildings thereon, by gift, option, purchase, or eminent domain, upon terms and conditions deemed by the Select Board to be in the best interests of the Town, and that to meet this appropriation, the Treasurer, with the approval of the Select Board, is authorized to borrow said amount under and pursuant to Chapter 44, Sections 7(3) and 7(3a) of the General Laws, or pursuant to any other enabling authority and to issue bonds or notes of the Town therefore, or to take any other action related thereto.

ARTICLE	BALD HILL AND TEWKSBURY STREET LAND SWAP
P44	

To see if the Town will vote to transfer the care, custody, and control of the parcel of land, consisting of approximately 7.419 acres, located at 126 Tewksbury Street, and recorded at Book 10031, Page 237 of the Essex North District Registry of Deeds, shown as Assessors Map 182, Parcel 7 which is being used for general municipal purposes from the Select Board to the Conservation Commission pursuant to Massachusetts General Laws, Chapter 40, Section 8C and Article 97 of the Massachusetts Constitution for conservation and passive recreation purposes and to transfer the care, custody and control of two parcels of land on High Plain Road consisting of approximately 4.401 acres used as the Bald Hill composting facility and approximately .677 acres used as a dog park and parking lot, both parcels being a portion of the property described in a deed recorded at Book 1294, Page 232 and shown as Lot 1 and Lot 2 respectively on a plan on file at the Town Clerk's Office titled "Plan of Land in Andover, Mass. Prepared for Town of Andover, Date January 20, 2020" by Andover Consultants Inc. from the Conservation Commission to the Select Board on the conditions that said composting facility shall remain as a composting facility only to be used for composting organic material such as leaves, sticks, grass clippings, wood chips and the like, and said dog park and parking lot shall remain as a dog park and parking lot and if the land transferred to the care, custody and control of the Select Board ceases to be used as a composting facility or dog park and parking lot, then that portion of the land which is not so used as a composting facility or dog park and parking lot shall revert back to the Conservation Commission of the Town of Andover for conservation and passive recreation purposes, and to authorize the Town Manager to petition the Legislature for special legislation to authorize the foregoing transfers and conditions, provided that the Legislature may reasonably vary the form and substance of the required legislation within the scope of the general public objectives of the petition or take any other action related thereto.

On request of the Town Manager



To see if the Town will vote to (i) approve a Tax Increment Financing Agreement (hereafter known as the TIF Agreement) with ____ for ____, shown on Andover Assessors Map ____ as Parcel ____, in substantially similar form to the TIF Agreement on file with the Andover Town Clerk, which TIF Agreement provides for real estate tax exemptions at the exemption rate schedules set forth therein, and (ii) approve an Economic Development Incentive Program ('EDIP") Local Incentive Only Application submission to the Massachusetts Economic Assistance Coordinating Council (the "EACC"), and (iii) authorize the Select Board to execute the TIF Agreement in substantially the same form as on file with the Andover Town Clerk and any documents related thereto, to take any such action as is necessary to obtain approval of the Local Incentive Only Application submission, and to implement the TIF Agreement. The TIF Agreement shall provide that the Town shall provide for an exemption of property taxes or a percentage thereof based on the incremental increase in property value in assessed valuation of the property for a period of not less than five years or more than twenty years in accordance with the requirements of the Massachusetts General Laws Chapter 40, Section 59; Chapter 23A, Section 3E and 3F; and the applicable regulations thereunder. In return for such tax benefits, in accordance with the TIF Agreement, ____ shall ensure at the above property the location and expansion of uses which increase job creation, provide higher property values, and retain or expand economic development in the Town and in the Commonwealth, or take any other action relates thereto.

On the request of the Town Manager

ARTICLE	PENSION OBLIGATION BOND
P46	

To see if the Town will authorize the Select Board to petition the General Court for legislation that would authorize the Town to borrow for the purpose of funding the unfunded pension liability, so-called, of the Town's retirement system, or take any other action relative thereto.

On the request of the Town Manager and the Finance Committee

ARTICLE	ACCEPTANCE	OF	GENERAL	LAW	PROVISION	TO
P47	CONSOLIDATE	MAIN	TENANCE FUI	NCTIONS	OF SCHOOLS	AND
	TOWN					

To see if the Town will vote to accept the provisions of Massachusetts General Laws Chapter 71, Section 37M for the purpose of consolidating the maintenance functions of the Andover School Committee with those of the Town or take any other action with respect thereto.

On request of the Town Manager

ARTICLE	ESTABLISHMENT OF WATER ADVISORY COMMISSION
P48	

To see if the Town will vote to establish a Water Task Force comprised of a 5 residents appointed by the Select Board. The mission of the Water Task Force is to serve as a dedicated resource to both Town staff and the Select Board in their role as Water Commissioners. The Task Force will provide information and guidance related to the actual drinking water quality experienced by users and potential options for improvements thereto. Development and ongoing updating of recommendations for both long & short term water quality improvement plans to the Water Commission will be their primary responsibility. The Water Task Force will hold regular public meetings to accomplish its mission as well as to collect direct feedback from citizens, review successful best practices utilized statewide, and communicate progress on implemented water quality improvement measures.

On the request of Jenny Ezell and others

ARTICLE	DEDICATION AND NAMING OF FIRE STATION
P49	

To see if the Town will vote to Authorize the Board of Selectmen and The Town Manager to officially Dedicate and Name the Ballardvale Fire Station in the Honor of William T Downs.

On the request of John Hines and others

And you are directed to serve this Warrant by posting attested copies and publication thereof, fourteen days, at least, before the time and place of said meeting as directed by the Bylaws of the Town.

Hereof fail not, and make return of this Warrant with your doings thereon, at the time and place of said meeting.

Given our hands this 23rd day of March 2020.

Laura M. Gregory, Chair)
Ann W. Gilbert, Vice Chair) SELECT BOARD
	OF
Christian Huntress, Member, Select Board) ANDOVER
Daniel A. Koh, Member, Select Board))
Alexander J. Vispoli, Member, Select Board)
A true copy	
ATTEST	
Ronald Bertheim, Constable	
Andover, Massachusetts,, 2020	

Pursuant to the foregoing Warrant, I, the subscriber, one of the Constables of the Town of Andover, have notified the Inhabitants of said Town to meet at the time and place and for the purposes stated in said Warrant, by posting a true and attested copy of the same on the Town Hall, on each school house, and in no less than five other public places where bills and notices are usually posted and by publication in the *Eagle Tribune*. Said warrants have been posted and published fourteen days.

Ronald Bertheim, Constable